

<400> 17592

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tctttttaat aattcactta cttttctgat ttttgttttt actctaattt ttttatttta 120

ttactttttt cctacacctt atatatcatt tcataacatc ttttttacat caactaacia 180

tagatattct tttacactct caccatatac atattatccc ccacacttat gagtatatca 240

aaaagaacgc tgcataaaca tttatccaaa attt 274

<210> 17593

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B1

<400> 17593

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agtagcaaga agagtgcgcg gccgatgatg gattacacat ctttgagggc agcgacagaa 120

aacttcagtg agagcaatgt ccttgaggata ggtggggttg ggtctgtgta caaagccaat 180

tttgatggga gggttgctgc tgcgggtgaat agactggatg gtggggcaca tgattgcaag 240

aaggaattcg agaatgagct agacttgctt gggaagattc gacatgcaaa catcgtgtac 300

cttgtaggct tctgcattca tgaggagaac cgtttcgatg gttatgaact gatggagagt 360

gagtcgttgg attcgcaact tcatgggcca ttacatgggt c 401

<210> 17594

<211> 281

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-034-Q1-K1-B10

<400> 17594

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agtggatcatg atgagcgggg gcgggtanca gatacgcgga tgttcgacta tcacaggcag 120

catggcatcg aaatccgaat tgccaggatt ctcaacacct atgggccaag gatgaacatt 180

gacgatggcc gtcgcgttag caacttcatt gtcacatgctg tgcgtgacga accccttact 240
gtccagaagc cagtaacaca gactaggagc attctgctat g 281

<210> 17595
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-B11

<400> 17595

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acggggacgg cgactgttg atcgacgaca accaagagaa ctacgacaat atgcacgcgc 120
accagggtcg cgaggactgc cgcggcctcc tcgacggcat actgtccgac ttcgacgact 180
acgacgggag cccagcacgg ccgaggctcc cgcggcgcc gtaccgcgc gtcttcggcc 240
acgacgacga cactctgctg gagctggagt gggcggaaga ggccgccatg gaccgttcg 300
ccaccagcga gtccgcgng ggctggtaca tggacggcct ggtcatg 347

<210> 17596
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B12

<400> 17596

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caacacctat gggccaacga tgaacattga caattgccgc gttgctagca acttca 116

<210> 17597
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G8

<400> 17597

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gttgctgcga ctccgctatc aaggacgcct ccctgccggc gtggcgctgc aacgacgtgg 120

tggacaagtg ctccgccgac tgccaggact gcgaggcgtc gccggccggc gacggcttcg 180
tctgcggtga ctttatctta agcctgaccg agcccccggt ctgcacaccg aggccgtggg 240
actgctgcga cagcgtggcc tgcacaaggg actacatccc caactgcatg tgcttgaca 300
aggtggagtc gtgctcgagc aactgcgaac ggtgcgagtt tctgtatcat tcggaccc 358

<210> 17598
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F10

<400> 17598

gctttatgct gatgcacatt gaaggactcc gattgggtgg atacgtatgg gagcttggtg 60
actgcgaacg gaaagtggac acgatcaact taagaaagca gccacgatgc aagcctatca 120
ctactatcct tccacggcct gattgacgtc aagacacgtc tatgatctca taatatctct 180
cactgattca caactccctc aacactctaa ctaccactcg agctaaacct tt 232

<210> 17599
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-033-Q1-K1-F11

<400> 17599

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atctccaagg gcttcgtcac caccaggacg gcgacgcatg tggccagcca cggccagaag 120
tacttctctc ggcagaccaa ccccggggatg aagaagcgcc gggcgagcct cttcgacgtc 180
ggtatcgcgg actacaagga caaccaggtg ccaggccctc agagcatcgt cactgccaaa 240
ccggcgcta cgcangagat aatccacacc gaccgcgcg acgtcccat accaagacga 300
tatagaggcc ctcgagagat tttagggcag taacatgcag gttaatcaac tgactgacta 360
ctactatttc aacaaggact cccatg 386

<210> 17600

<211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F12

 <400> 17600

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 ggaggacata gacggcgggg tggacgtgca cataaaccgg cgtatcgaag tgtggaacgc 120
 ctgccgagag aacctcgagt tcaacttgcg ctggaccgcg cgcacaatcg ccctcgtaat 180
 tctcttcagc ctaggattga ggacaccatt atacacatca atggggagc 229

<210> 17601
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F4

 <400> 17601

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 tactaccgga cgttcgacac caaccgcgcg gctctggtag agctgtatca cgagacctac 180
 atgctcacct tcgagggcca gaagttccag ggccattcg acattgccgg caagctcgga 240
 tctgttccct tgcaggcctg ctagcaccag atcgtcaccg tctactgaca tccgacgtag 300
 cccgatggag gcatgctcgt attcttctgc ggatgcatac gtaccggcca cgaagtgcac 360
 gctatc 366

<210> 17602
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-F5

 <400> 17602

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 ggagaaatta agcaaagcat aggcacagcc atggctacct cctctgggtc ttgccttatt 120

attagcctgt tgggtggtggt ggtggcgccg gcgctgtcgg cctcaacggc gtcggcacag 180
 ctgtcgtcga cgttctacga cacgtcgtgc cccagcgcca tgtccaccat cagcagcggc 240
 gtgaactccg ccgtggcgca gcaggctcgt gtggggcggt cgctgctccg gctccacttc 300
 cagcactgct tcgtccaagg ctgcgacgcg tccattctgc tgaacgacac gtccggggag 360
 cagacccagc cgccgaacct aactctgaac ccgagggcct tcgacgtcgt caacagcatc 420
 aaggcgc 427

<210> 17603
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F6

<400> 17603

ctcatctcgg ttactataa gagtataagt tcgtctccgc aacaagctaa tcttggtttt 60
 gccctcctt ccacgtggcc accctgccgt cgctcgtact cgcatagaga ttgcgcggc 120
 cgtgtcttgc tcgcgcctgc ccccttcctt ccttgctcgt ccagcgccca gatctctcgc 180
 tcgccggcgc tcgggccaga tctgggtgga ggctcggagg cggagcctgg cgcaggtttg 240
 gtttgacca aggggcgagg aggagaggga agaagacccc ggacgccatg gagctggcgg 300
 ttggcggtg gatgcggcgg tcggcgtcgc acacctcgt gtcggagtcg gatgactttg 360
 agctcacgcg gctgctcaat aagccgcgga tcaacgtcta gcgccagcgc tccttcgacg 420
 accactcgt cagcgacgtc tcgcac 446

<210> 17604
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-033-Q1-K1-F7

<400> 17604

cactcccatc cagccgccac caggtgcaga gtctttcgtc atctcttctc cggcgaagaa 60
 cgcccagtcg cccaccagat cacttggtta actttgttga ggggtgatgg cggttttctt 120
 cgcaaacctc aacaccgagg cagggcttaa aaagcttgat gagtaccttc tcaactcgcag 180

ctacatcact ggctaccaag cttccaagga tgacttggct gtctacactt cgttttcgtc 240
 tgctccctcg tccaagtata tcaacgtagc aaggtgggtt aatcacattg atgcgctcgt 300
 gaggctgagc ggaattactg cagagggcca aggtgtgaag gttgaatcct cagcagttcc 360
 ttcagcccca actccagatg ttgctgaagc acatgcccca gcttctgang aagaggacga 420
 tgatgatgt 429

<210> 17605
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F9

<400> 17605

cagagagaag catgctggct gcctcaacag tatgtgggat tgaccaatca gcggattggg 60
 catctctcat ggattgaagt gcttattaac taaagatttt gaagaagaag ctgctgtctg 120
 ctggatgtag gcttccttga aatctaactg cttaatgaac cttcaagatc atcacaacgt 180
 gcacgagtgg cacatgctaa cacgtcgaaa cccttgtcac gaaagaatca tgtctctttc 240
 ttccttccat ttcttggcat ctgatgctct gatgtgttcc ctctgcc 287

<210> 17606
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G1

<400> 17606

ccgttcgect cttctcctcc ctcttgcgg gtccttaata aagagcagca gcgcaagagg 60
 tgggtagagc gagcgagaag aaggcaatgg cggcgagag cttcctgttc acctcggagt 120
 ccgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg 180
 cctgcctggc gcatgacccc gacagcaagg tggcctgcga gacctgcacc aagacgaaca 240
 tgggtgatggg gttcggcgag atcaccacca aggcgagcgt ggactacgag aagatcgtgc 300
 gcgacacctg ccgcgagatc gggttcacct ccgacgacgt ggggctcgac gccgaccgct 360
 gcaaggtgct ggtgaacatc gagcagcagt cccccgacat cgcgcatggc gtgcacgggc 420

acttcacgaa gcggcccgag gagatcggcg

450

<210> 17607

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G10

<400> 17607

gcgggtgatg gcatgtcaga gctccaagac tcgcggacac cgccgagcct ccggcggagg 60

gggcagccac cggagaggca tgctacagac gcggcttctt caacaccggc acaaaaccct 120

aacgctgctg caaccgcagt ggccgttgcc accgatctag agaagaagat gcgccgcgcg 180

gaacggtttg cgatgccaga actgatgtca gacgatgaac agcgcagcag tctgcgcca 240

agatttgga ctggctcttc aagtgtaaa 269

<210> 17608

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G11

<400> 17608

cggaattccc attgcaccat gcggtccaac ggccaatgcc tgaccagcaa ccgcgactcg 60

acttaagcta atgtggtggt agacaagtgc cggttcttag ctacgggccg agtgaacagg 120

cacgtgcccc tggaccgtac caacacgctc aaatgggtcaa tcggcctggt gatggccgct 180

acctcgtcga ctctcttcgc ggggctcacg gtgcggcacg acgaccgccg caccagccag 240

tcgtggacta cgaccaac 258

<210> 17609

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G12

<400> 17609

ttcgagctcg cgtcacgcac tagcagagag agacagagcc catatctcca tacctagaca 60

gacggataga gattccgtgc cgggtacagt gcagatactg aagacgccta ggttgaacta 120
tagacagtca cttgagacag ccttc 145

<210> 17610
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G3

<400> 17610

cgacccaggc gtcctaacaa agcaacatca gagctattgc ttgggtctga ttaccctgtt 60
attaatcaag gactgtgtgc tgcactacag tctctctggg gcactggatc actgcgtctc 120
gctgcagcat tcatacaaag atactttcct gaagctaaag tgctgatatc gtctcctacc 180
tggggtaacc acaagaatat cttcaatgat gctagggtag cttggtcaga gtaccggtat 240
tatgacccca agactgttgg gttggatttt gagggaaatga tagctgacat tgaggctgct 300
cctgaacgtt cttttgttct tctacatggg ttgttctcac aacccaactg gaatagacct 360
aactccttaa cttttt 376

<210> 17611
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G4

<400> 17611

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ttacgtgatg cagtgcaggg tctgccatga ggaagaggat caagggcgtg cgaccatgga 120
gtctccttgt ggatgctccg gctctctcaa gtacgctcac aggggatgtg tgcagagatg 180
gtgtgacgag aaggggagca ccctctgtga gatctgcctt cagaatttca agccaggcta 240
cacaatgcct gccaaagaaa ccccggtggg tgaaacggct gtcactatca gtgatcgtgc 300
agtgaacacg aggacatgca acatttggaa cttcggagg gctaggttga cgggtgcatat 360
tacaccaggt gcttct 376

<210> 17612
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G5

<400> 17612

catatacact aactcccatt acgtttttaa taacacatct gccacaacg gaagtgtcca 60
 atctaaaaga ttggactgcc tacaacagc tttctcttca actcatactc catgaaccaa 120
 gtgtacccat acaatctatt ccaacaaatt tcagactctt cactttactc ctctctttca 180
 caagaacccg acagcaaaat tacctgtcaa accttatata aaacgaacta cattattctt 240
 tttcactaaa tca 253

<210> 17613
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G6

<400> 17613

gaaacagaac agagagcata tctctcgaag caaagctctc acttcaccgt cgtcttcctt 60
 ccactacaga ctgacttacg acgctcaggc atcagggaca tatatcaagc tcctgcaaca 120
 attgaatcac cacacggatg cttcgcctct ctcaaactcg ctcacaggcg atctgtgcaa 180
 atacgccttc accagaaggt gatcaccctc ttgaacaact gtcttcacaa tttcaagccc 240
 agctacacaa tgctttccaa gaaaacccac gtgggttcaaa ccgatgttac tatcaaagat 300
 cgtgcattta aactaagac atgcaacatt tagaaccttc ctaaggcttt attgaccggt 360
 caa 363

<210> 17614
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F1

<400> 17614

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gatgtgtctg atttggattt gactcagttt tcaatcacac gggtcaaata tcttttactg 120
ttctctagcg agcgtgactg gtgctctctt actaaaacac ttctggatat tcttgccaag 180
agaagcttgg tcagcgagga attatcaaag gaaactatgg agatgctggc tgagattcac 240
cttctgaaca gagcagtaaa aagaaagagt aggagaatgg tgcatttgct tgtacagttt 300
gttgactat gccttgataa ttccaagggt tacccttcc tcccaaactt tctggccct 360
gggggtttta ctccgttgca tcttgctgca tccattgaga atgcagagga tatagttgac 420
gccttgacag atgacctca acaggttg 448

<210> 17615
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D4

<400> 17615

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gagaattttc tggagtgttc gagtcgagca gggttccgat ggcgctgcaa tggatgatcc 120
tggcgtgctg ggtggcgggtg gaagctgcgg tggtgctgct ggtcacgctc ccggtgcccc 180
gcgctgtgcg gggccagatc gtcgcgctca cgtccttggt cctgcagccc ctgtccagtg 240
tgataccctt cgccggcttc cagatcctcg atctctactg gaagaaggag cacagactga 300
tgtgcacctg ggagatttgc accgacgaag agcgcattcg ctccgagaaa tctatgttta 360
aagctcagag aaatgtcatt ctttgtgttt cagcatgtct cctttattgg tgcatttacc 420
gtattgtaaa attgaacaag gatattaagg ctttg 455

<210> 17616
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D5

<400> 17616

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cgtcgcgtcg actcccaaga tggataagct cagtggttct gcacgtctta tgattgtttc 120

agatcttgac catacaatgg ttgatcatca tgacgaggag aacctgtcct tgcttaggtt 180
 tgggtgccctg tgggaatctg tttactgtga ggattctcta ctagtcttct cgactggaag 240
 atcaccaact ctttacaagg aattaaggaa agagaagcct atgctaactc cagacatcac 300
 tatcatgtct gttggcactg agataacata tggggaggca atgggttcctg atgatggctg 360
 ggaagaatat ctgaacaata agtgggacag gaatattgtt gtagcagaaa ctgtgagctt 420
 ttctgagctg aagctt 436

<210> 17617
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D6

<400> 17617
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 ggcacagccc cgacgacgac tctccctgct gccttctctc ctgtgaggat ctgctctctt 120
 ccttccctct cctatcctct gctctcgctg ccccaaaact ctgcacctcg atctcgctcc 180
 tctacgctct cgcacagtga cgctttgttc aagggtgtggc cgccgccagt cgctcgctc 240
 gttgaagcag ttgctgtcga ggttgaggtc ctctctggggg agacgcgcgg cgcgccgag 300
 gcgcagcgcg gtcaggttcg ggtatgacct gcatagctac tcccagaact tcgacgatgg 360
 cgttgccctag tcagcccggc ggccacggct agcttcttca gtacgtgtag ctagttagga 420
 gtctaggata ttcgtgtaac tagcta 446

<210> 17618
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D7

<400> 17618
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 ggatcatgtc ggaggagaag caccaccact tcttcaacca ccacaagaag gacgaggagc 120
 agcccgccgg cgagtacggg tactccgaga ccgaggtggt caccgccacc ggcgagggcg 180

agtacgagag gtacaagaag gaggagaagg agcacaagca caagcagcac ctcggcgagg 240
 ccggcgccat cgccgccggc gccttcgcac tctacgagaa gcacgaggcg aagaaggacc 300
 ccgagcacgc gcacaggcac aagatcacgg aggaggtcgc tgccgcgga gccgtcggcg 360
 ccggcggcta cgtattccac gagcaccacg agaagaagaa ggaccacaag gacgccgagg 420
 aggccagcgg cgagaag 437

<210> 17619
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E1

<400> 17619

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 ctaataacca gctagcacta tcagcaacag gctgtcatca tctcctagga cgtgcacctc 120
 cacttataca accaccacaa gaatgactag gaaccacatg cactccaata ctcttactac 180
 gatacctaata tatctacctc cacagaccaa tcttagtcct actgtttaca acacgaatac 240
 atggagcact atcacaagca acacactcgg ctatgccgac tccatctgca accgcacctt 300
 tcaactctac tagaaacaca atgcgacata taactccaaa cacactcaca ctcaagaat 360

<210> 17620
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-E10

<400> 17620

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 ngggcgaggg acctcgatca cgaggaggca ggggagcagc atccacaacc acaagccatg 120
 gcggcgaggg ccaacatccc cactaacaac tccgccctca tcgcaatcat cgccgacgag 180
 gacaccgtca ctggcttctt gatggccggc gttggcaatg ttgatctgcy caagaaaacc 240
 aactacctcc tcgtcgacaa caagacgaca gttaaacaaa tcgaggatgc gttcaaagaa 300

tttactacga gggaggatat tgctattgtg ctcatcaatc agta

344

<210> 17621
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-033-Q1-K1-E11

<400> 17621

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gttcgggtgcg tnngtgctgc gaagcgcatt cgtgggtgtga ctgcgctgcc atccatcatg 120
ccctgggctc gtctctttcc tcgatcatta nngccaagga gctnnngctc aatgggcatg 180
aagggtgagt cgtcgtcccg cttgcgaagg agaattctgca nntgtcgggc cggccctcgt 240
cccgtcagaa aggattgaag tac 263

<210> 17622
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E12

<400> 17622

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tgagtccctc tccggacctt ggtagctget tgcttgtggg gaggagagt gtgagactga 120
gggagaagag gtgggtggcg tgggtgctacg tcgagagagg cgtgttcctg taatactgta 180
ctcgcttcgt tttctctgca tgcgtctata attgtgttca ataataagtg agagcggcgt 240
gatattgtggc tca 253

<210> 17623
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E2

<400> 17623

acgcccgcgt ctccgcctca tggcggcatc agcgtctcgg cccctcgcgc tctcgcgtg 60

cacgggggca tctcacggcg ctggggcgcg ggcgtgggct cgcttggtg tctcttccta 120
 ttggcgagg tggcgctcc ccaggctccg cgggcgtcgg tcgttcgccg cctccgcagg 180
 gggcgccgtg atggggaacc caggccccgg cgccgttgac gccgacgtcg ggatggacgc 240
 cgtccagcgg cggctcatgt ttgaggacga gtgcatttta gtggatgaac aagacaatgt 300
 catcgccac gagtccaagt ataactgcca tctcatggag aagatagaag ctggaaatgt 360
 cctgcacaga gctttcagtg ttttcctttt caactccaaa tatgaattgc tactacagca 420
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<210> 17624

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E3

<400> 17624

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 aaaaactatt cgatgcacat aattcaggac cacattgact tcgctaccct tcttaaatac 180
 atcaactagc tcaatcatca catcaatctt gaccgtgcta tgcacgatgc ccagaccatt 240
 cgcactattg ctcatgaaaa caacactttc ttcatccaa ctggcaccct aactttaatg 300
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<210> 17625

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E4

<400> 17625

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 agtcagttgg ctgtgaagtt gacaatgaaa agatggaact cctgctgtcc caactgagcg 180
 gtaaggacat caccgagctc attgccgcgg gcaggagaaa gtttgcttca gtcccatgtg 240

gtggcgccg tgcgctgtt gggcgagctg cacctgctgc tggcgagct gcttctgcag 300
 ctgaggcaaa gaaagaagag aaggtggaag agaaggaaga aagcgatgat gatatgggct 360
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 ggaaaaccag agtcatgttt agattttaag c 451

<210> 17626
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E5

<400> 17626

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 agatggactt cgataccctc ctttaagttca tcaatgagct cagtggtcag atcaatcttg 180
 accgggctat ccaggacgcg gaggcattgt gtactattgc aggagaaaat ggggcttcct 240
 gcattccacc tggaacccca ccttcaatgc cgcgcgagac cgatgggtggc atgtacgtgc 300
 aagaagacga ggtcttgtga gatatcggtc accctagaaa ataattgcat agaagcatcg 360
 caagttttta tccagtagtg ctttcgtcga cgtcataaat gtgatccgtt gtaagtttgg 420
 aagaa 425

<210> 17627
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E6

<400> 17627

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 gcatcgacga acttaaacia aaatgcatgt tgcacgacta caggtagcga taaatgccat 120
 agcaciaata ctgatcgccg cataagacag actacagggc caggataagg ctgattaacc 180
 aagacaaaaa caagtacaat acacccaaat acagatttga tgtgcgattt accaacaatgg 240
 acatcacagc acaaatcatc tctgctagta tagcaggtga tatggttctt gcttctgctt 300

actcgcatga gttgccacga tatggctcttg aagttgggtct gaccaactat gcagctgact 360
actgcactgg ccttctagtg gctcgccgtg tgctcaagac cctggtttta aataaggaa 419

<210> 17628
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E7

<400> 17628

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cacatcggcc aggccggtat ccaggtcgga aacgcgtgct gggagctgta ctgcctcgag 180
catggcattc aggetgatgg tcagatgcc ggtgacaaga ccattggggg aggtgatgat 240
gctttcaaca ctttcttcag tgagactggc gctgggaagc acgtcccccg tgctgatttt 300
gttgaccttg agcccactgt catcgatgag gtgaggactg gcacctatcg ccagctcttc 360
catcctgagc agctcatcag tggcaaggag gatgcagcca acaacttcgc tcgtggtcac 420
tacaccattg gcaaggagat tgttgacctg tg 452

<210> 17629
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-E8

<400> 17629

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ggacgcgag gaagatgggg ctgcggttcg ggaagctctt cagccggctc ttcgccaaga 120
aggagatgcg gatcctcatg gtcggcctcg acgcccggg taaaaccacc atcctctaca 180
agctcaagct cggcgagatc gtcaccacca tccccaccat cggtttcaat gttgaaactg 240
ttgagtacaa gaacattagc ttcactgtct gggatgtcgg gggtcaggac aagatcagac 300
ctctttggag gcattacttc cagaacaccc agggctcttat ttttgttgtg gacagcaatg 360
accgtgaccg tgttgttgaa gccagagatg agtccacag gatgctgaac gaggatgagc 420

tacgtgatgc tgtgctgctt ggttttgcca

450

<210> 17630

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-E9

<400> 17630

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gttgatatgt tgtcaaagaa agtagatact ttgacaaaag ctattgagtc agatgccaaa 120

aaatcgaggc gcgagctagc tgctatggag aaagagctgg caactgttcg cttggagaaa 180

gagcangata acagggcaag actttttggt agttcaagcg gt 222

<210> 17631

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-D3

<400> 17631

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atcgggcatg aacagcctgt tctcgagctc atggaagcgc gacggcgggg acatcgagtc 120

cggcgggcgtg gagatgtctg cgccggcggg cgccgcggcg ggcgcgagcc tggacaggtt 180

cttcgaggac gtggagtcca tcaaggacga gctccgcgac ctggagcgca tccagcggtc 240

gctccacgac gccaacgagg ggggaaagtc gatgcacgac gcggcgggcg tgcgcggcct 300

acgcgcgcgg atggacgcgg acgtggccgc ggcgatcaag aaggccaagg tggatgaagct 360

tgcctcgag tcgctggacc gcgccaacgc cgncaaccgg tccgtgcccg ggt 413

<210> 17632

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B5

<400> 17632

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acgtatacac agacacttcc gttgatcgat tgagtttgaa cccaccagga tcaggcttag 120
gattacctca tgtctgcgtc gccggagttt tacaggccca ttgaagcatt ggacttttag 180
ctgtactgtg caactcatcc ggtactgtac cctggctaca tctactgttg cataacgcct 240
acggacagct tcatctgcta 260

<210> 17633

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B8

<400> 17633

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tgagtcaacg ggatcagaga tgagcgagga aatcgatgtc cagcttagtc cagaggagaa 120
agaaagttta gatgagatca tcaaggaagc tgagagcgac ttggagtctg aggaagtcct 180
ggatcaatcc cttgccattg ttgccgagaa tgaaggctctg gacaaggacg cagctgcaaa 240
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tatggataag cacatatatg caggacacac tgtcaaacca tttcccagcc tgattggagc 360
tggaaggtct ggttgtttcg tcatctgaaa tatatttgct aaaggtgttg aggcttgagt 420
ggtgtacacc ggcaacaaca aaaatt 446

<210> 17634

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C1

<400> 17634

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ggcaaagcaa cagactgact tcaatgcatg ggtttcagga atgtgctgca ttagaggagt 120
tatactcat ccataatgga atccaaaaga tggaaggcct ctctactttg cataacctcc 180

gcatttttggga tgttttcagct aacaagctaa cgactataga aaatatcgaa accttaacca 240
ggctggagga cctgtgggtg aatgacaacc aaataccatc tctagagggt atagagacag 300
ctttggctgg ttcgcgaggag aagttgacga caatctatct cgaacgaaat ccctgtgcaa 360
aaacttcaga ttactcgtcg acgttgagga aaatatttcc aaatctcgaa caaattgatt 420
cagatatcat agcatgataa ctagc 445

<210> 17635

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C10

<400> 17635

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gccatcgcta agccgtcgtc gtccaagaag ccctctccgt cgttccgcct tcggaacggc 180
agcctcaacg cact 194

<210> 17636

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C12

<400> 17636

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tagatctgaa ctcatatata tctacatata tataaggcat actacgtacg cagaatgagg 120
ataggtccac agtggatcat atacctgaac cgacatgctt ggacgaa 167

<210> 17637

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C2

<400> 17637

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cggcacgcgg accgtgtgcg gccggccgga gtacgttcgc gcctgctgcg aggccagcct 120
gcgccgcctc ggcatcgact gcatcgacct ctactaccag caccgcattg acaccacaac 180
tcccatcgag gagacgattg gcgagctcaa gaagctggcg gaggagggta aggtcaagta 240
catcggattg tcagaggcga gcccgacac catcaggcgt gcacatgctg tgcaccaat 300
caccgcggtg caaatggagt ggtctctctg gtctcgcgac attgagcccg aaattgtgcc 360
gctctgcaga gaattgggca ttggaattgt accatacagt cctcttggcc gtggattttt 420
tggtggaaga ggagtgaag aacaagtgtc tgctg 455

<210> 17638
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C3
<400> 17638

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ggtatgtgca atctcatatc cagattaacg agtaccgtga tcgtataatt ttgcctaggc 120
tgacacaaca gtttgggcgg cctgttacca gctgtataaa agtgctggat atgactgggtt 180
tgaagctatc agcactaagc caaataaaga tgttgacttc catatcgaca gttgatgatc 240
taaattaccc tgaaaagaca gagacctatt atgtagtcaa cgttccatac atattttctg 300
cttgttggaa ggttgtgaag cccttattgc aggagaggac aaaaaagaag gtcaaagttt 360
tgactggctg cgggagagat gaacttctga agatcatgga ctactcatca ctccccatt 420
tctgccgcgg ggagggtctt ggatcatcga agca 454

<210> 17639
<211> 471
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-033-Q1-K1-C4
<400> 17639

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ctttttggcc caatgaagga tggggacatg aagtgtataa agattgaaga catggaggct 120
 ccagtattca aggccttgct ccatttcacg tattgggatg agttgccgga tattgaagag 180
 cttactgggtg taaatacaac ttgggtatcc accttgatgg ctcaacattt actagctgct 240
 gcagaccgtt atgcattgga gagatcgaag ttgctctgtg aacttaagct gagcgaagat 300
 gttgcaatat atacagtggc aaatactttg gcaactggctg aacagcacca ctgttatcag 360
 ctcaaaactg tttgcttgaa atttgtagct ctggctgaaa agttgaaagc tgtcatgcaa 420
 accgatgggt ctgattatctt gcaacaaagc tgcccatccc ttctgaccga g 471

<210> 17640
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C6

<400> 17640

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 cagctaataa aagtttatat aaattagaga agtaatccgg ctaggaatcg ttccaaccca 180
 ccaatccgat agaaacgaac aaggcctaac tggttatctt gaactgacgt tcatgtggca 240
 tcgcaatggc acatgaacat acggcgcttc atgagtttgt taaccggaat atgaacctac 300
 cacctgcggt atttgatccc tgaatgttga gtttgcactt ctgctt 346

<210> 17641
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C7

<400> 17641

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 tcgtgcagcc tgctttctac gaggctttcg ggctgacggg ggttgaggcc atgacctgct 180
 gcctgcccac gtttgccaca gcctacggcg gtccggccga gatcatcgtg cacggcgctg 240

ctggctacca catcgaccct taccagggcg acaaggcgtc ggccctgctc gtggacttct 300
 tcgacaagtg ccaggcggac ccgagccact ggagcaagat ctcccagggc gggtccagc 360
 gtatcgagga gaagtacacc tggaagctct actcggagag gctgatgacc ctcaccggcg 420
 tgtacggggt ctgggagtac gtg 443

<210> 17642
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C8

<400> 17642

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 ggtccagggg ctgcagcagt agcgtggcga aggggtcatc accaccagcc ttccagttcc 180
 agtgcagggc gtcgactttc gcggcgga cccagcctccg gctcgagctg gacgagaacc 240
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 tccgcgccta cctcgagtcg caggagacgg cggcccaggc agacggtcag cagcgcggcg 360
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 tggaggacgt cgagtgccac ttcgaggcc 449

<210> 17643
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C9

<400> 17643

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 gatgatccgc acacatgatc cgcattacgc gtctgctgca agagcctcac gaacctctag 180
 aaattctgca gcaatctggt gaagggcccc aagggtacgc gtactcaacg tcaaaggcct 240
 ccgtgccgta ttcccttacc aatgtgcctt cacatcacca ccaggaaatc ttctgtggc 300

caaggtacca acacctggga tcgctttgaa atgaggattc aca 343

<210> 17644
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D1

<400> 17644

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tctcattatt gcatcactat cttgaacata cattgggttg tcatcatgac taggacaatc 180
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ta 302

<210> 17645
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D10

<400> 17645

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agctcacgat ccagctggcg ttcgctccca acctcaagga catccgctcc atacgaggtc 180
cacatccgcc acaacgagaa taaacagcac agcatgctta gcattttacga ccacatcctc 240
tcca 244

<210> 17646
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D11

<400> 17646

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ctctacctct ccgtctacaa ctgggtcgtc ttcttcggat gggcgcaggt gctgtactac 180
gcggctcctga cgctgcgttt gagcgggcac aaggccgtct atgccgccgt cgagaggccg 240
ctgcagttcg cgcaaacagc cgccatcatg gaaatcgttc atgggctcgt aaggtt 296

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<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-D12

<400> 17647

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accaagctca aagctgacct tacacctatc gaccgcgccg aatacaaaga acatgagcaa 180
gtcctagttc tgagacgcct tcaatctatt gtaaataac acaacgcac cccttgctta 240
tgtccctact g 251

<210> 17648
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B3

<400> 17648

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atdddgggac tcaatcttct gaggtgtgg gtcagaatag aattgccgaa ttccacactg 180
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cacatgagac ctacgtttac ttcacgcacc ttctcgccaa aacagttaga gatgagatcg 360
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tggttcagttc tgaccaagat ct

442

<210> 17649
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H7

<400> 17649

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agtacagcct cgctcccgcc gactgcaagg tctgcctagt gcgcacggac cgtgatgacg 180
acgcgcagca ctggatcaag gacatgaagt acagcaccag ggtgaaggat gaggaaggct 240
accctgccat cgtcctcgtc aacaaagcca ctggagaggc tctcaagcat tcccttggcc 300
agttacaccc tggttcttctg acccgtcata atccatactt cctggacgag tctgtcctgt 360
gga 363

<210> 17650
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H8

<400> 17650

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agttgaaagg aagatactta gcataaaaat ttccaaccat caattttaca agcttttacc 180
tgtgagactt gaccaggaac agctagatga gttggaactg gaagctaaaa tacaaggaac 240
aaaaatgtct aatgtctgcg tccaggtggc tgaaactggt cagagtgagt cactctactg 300
ttataactgt aagctgtcga tgagccgatt attgatgtgc tgtccgacat gcccggttaa 360
gctgtgccta agttgctgtc agaagattcg tgaaagaaac a 401

<210> 17651
<211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-H9

 <400> 17651

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 tccgtacctc ttatcagcac tcatgatgct gcgctccaac cccatctgac tcctcatcct 180
 acgatgcata tcatccagct ctactatct ctgctattaa cctaacgagc aggagccgac 240
 gataccacaa gcccttagtc gaccaatata acaacgcgcg caacgctcca tccttgata 300
 aggacgacac tgacatcgta acgaggatca tcggcgcacc ttcttgccat aacgtcatga 360
 acctgcagat ccgcgtc 377

<210> 17652
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-A1

 <400> 17652

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 gtggtgtttg gggggcagct cacggagggg gccgacggcc tcaacaagac gaagaggaag 180
 acgggctcct cgcccaaggg gaaggagaca acagggaccg ggatatcaa ggccgagagc 240
 gccgtcgtcg ccgtcgcaac tgccttccgt gatcgtcagg ctagccagat caccttttcc 300
 caggacggg 309

<210> 17653
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-A10

 <400> 17653

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ctgctctcta ctctattcgg cgactgatga cgaaccagag cgagcctaag ctattatcac 120
 tggaaggggtg gaggtccacg aagaccagcg cggcgggtcca gaacacctct agtaaggtgc 180
 agagttgatg tgggcgtaat gtatctttct aagttattgt aagccgggtct cttgtcttca 240
 caactgacga tctgtgtgtg gtacgctacg cagcaagtc gcggttgtgc gtgtacgtct 300
 gaactctgga gcattgggtt gttgtacca 329

<210> 17654
 <211> 120
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A11

<400> 17654

caataatcga tctttataat aacctttctc ataacacaga caagtacgta cattacgcga 60
 tggttaaaac aaaagttggc gactaatcac catatacagc gagcctaata ccattatcac 120

<210> 17655
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A12

<400> 17655

gaatcattct ctgctttcaa tagcgtctat aacaattcgg gccttttttg aatttatgca 60
 gggactagcc cagacttttc atcgaaggct gtggatttgg cagcagggga actcctggag 120
 attgcgacac ctggaaaagt tacacaagaa caacttgatc gtgctaaaga ggcaaccaa 180
 tctgcagttc tgatgaactt ggaatcaagg tctatagcat ctgaagatat tggaagacag 240
 gttcttactt atggggaaag gaagcccatc gagtatttcc tgaaaacagt tgaagagatc 300
 actttgaatg acattttgtc aaccgcaaaa gagatgatgt ctacaccact cacaatggca 360
 tcgtgggggc gccgttattc atgttcctag ctacgagtct g 401

<210> 17656
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A2

<400> 17656

acgcgagaaa cacttggagt ggcgtactga agcgcctttt tatacattgg gtcctttgac 60
aactgatatg gcacctgggt atgatcacat cacttaaacc atcggtgctg ccaacattac 120
agctcttggc actgaacttt actgctatgt aacaccaaag gaccaccttg gttagcccaa 180
tcgtgatgat gtcaagactg gtgtaatatg ctacaaaatt tctactcatg ctgactatta 240
tgcaaacgtg tatccatatg cacatgctct acatgatgct ctttgcatgg caagggatga 300
gtgaagaatg ctgcaccaac ttgcttcac tctggatcca tgaactgcta tagactttca 360
tgatgaagca ttgccctctc atggtgccaa agttgcacat ttctgctcaa tgtgtggacc 420
caagttctgt tcaatgaaaa ttactgagga 450

<210> 17657

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A3

<400> 17657

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caggttcagt cattcatcaa cgtatagggc aatataatcc cgaaccatgc gttcatacat 120
tcgaccagca accctcatag catttaccac tacaattcct atttctttaa cgaccaaaga 180
gaactcttgg actacgaatc aaca 204

<210> 17658

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A4

<400> 17658

acgcatgcgt tgggtggttg agactacaaa ggggcagtta accagtgtct tgcttctaata 60
cgtatggctg atgcttttgt tatagcccat gccggtgggt ctgctctctg ggaaagcaca 120
agaaaccatt atctcaagaa cagtatctcg cctacttaa aggttgtctc tgctatgggtg 180

ggcaatgatt taatgagttt tgtgagtacc tggccactaa gtatcatggaa ggaaactctt 240
gctctgcttt gcacatttgc acagaaagag gagtggcata ttttgtgtga cacacttgcg 300
tctaagcttc tgaatgtcgg tgatacacta gctgcgaccc tctgttatat ttgtgctgga 360
aatattgaca aagcttgtga aatatgggtcc cgcaccttga aatctgaaga tgggtgggaag 420
acttatgttg atcttctcca ggatttgatg gaa 453

<210> 17659
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-033-Q1-K1-A5

<400> 17659
ccgatcccta ctttcattag gagagagaga ggagaggaga ggagaggagg ggcacggaga 60
tggagagagc ggccccctg aggagctccc acacctcgac ggctggcctg ctgcgctggc 120
ctaacccega tggcgccggg tcgctgccag cgcgcggcc taacaagcca ccgaaggatt 180
caagaatgtt gtgtttgggg ggcagcttac cgaaggggcc gaccggctta acaagaccaa 240
gaggaagacc ggcttcttgc ccaaggggaa ggagacaaca cggaccggga tatccaaagc 300
cgaaagcgcc gtcgncgtcg tcgcaactgc ctncctgat cgtcaggcta gccagatca 359

<210> 17660
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A6

<400> 17660
gtgcaatggg gttcgtgctg gtgggtctct tgccttcat cttcctctcc atcctgctcg 60
ggttcggctg ctacttcctc ggcaagcaca ggggcccggga ggagatgcgg accggcgctc 120
gcgcgagat ctacggcacg ccgctgccgc cggccggcgt cgctggagcc tcctcgccgc 180
cgctgagcc gttccacagc aagaaacaat ggtccgaggc tgtgtgacta agatttagac 240
gtctctccat ccatccattc tactactact acatatatgt cttggtggtg atgttgatt 300

tatattctta attctttctt ctttaatttc gccctggctg tcttgagagt gtagattgag 360
 agtcaaactc gtgcttgtgt ctaaagatgg tgtgtgtgtg tggatgttgt gatacgattg 420
 caatcacact ttatatcttg ggaaatttgg 450

<210> 17661
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A7

<400> 17661

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 gcttcaactg ctacttgctc ggcaagcaca aggaccagca ggagatgctg accgccgtcc 120
 acaccacat ctacagaacg cctctgccgc cgcccgctgt caatagagcc tcctcacaga 180
 cacctgagcc gttccacagc aagaaacaat ggtccgaggc tgtttgacta agatttacac 240
 ttctctccat acatccattc tactactact acatatatga cttggtggta atcttgaatt 300
 tatatactt 309

<210> 17662
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-A9

<400> 17662

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 tcgctgcagt taaagactgc cgtggaacgt gcatattccc tgaagcacag ccgttcccac 120
 acaagaactt cgatgacgag gctgccttcc tgaatcgctt attcgggtggc ctcaagtgcg 180
 gcggcaatgc ttatgtgagt ggtgactctg ccaagcccgg gcagaagtgg cacgtctact 240
 acaccgctga gcaccctgag gagcctgtcg gcactctgga gatgtgcatg actgggctgg 300
 acaagaggaa agcttgtgtc ttgctcaaga ccactgctga tggttactcg ctgagcgcca 360
 aggatatcac caatctctct 380

<210> 17663

<211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-B1

 <400> 17663

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 gaagggtagc actgacagct ttctacgctc cgtctaagat catcgtcgat caccactcca 120
 tcactcaccg acatctacca tgcgaaacatc acttacctgg aagagctact tctcccgatc 180
 ctcatgacac acaacagttg acatgtactt gaatggccat aaccactcgc cttcacctcg 240
 tcagcagcag acacagtact cttcagctac caaccagcga cggcaattcc aatgcatcag 300
 ctcgcaagtt caaaccacc accacaaaa tc 332

<210> 17664
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-B11

 <400> 17664

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 aaccaagaga actactacaa tatgcacgcg caccatggct gcgaggactg ccgcggcctt 120
 ctcgacggca tactgtccga cttcgacgac tactactgga gccagcacg gccgatgtcc 180
 ccgcctgctc cgtaccgcgt cgtc 204

<210> 17665
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-033-Q1-K1-B12

 <400> 17665

 cggaattccc ggtcgtgtcg tcgcgtatgg cctcgctat gctctacttt taccatcc 60
 ctgcacagcg ccgctcaccg tcaccggacc agggtagcga tcgatggctg aggtacacat 120
 cgagccgccc ttgatggtgg acgacgttcg gcacgcgccg gagggccgtg agaacgacct 180

cgaggccatc gagctcggc gct

203

<210> 17666
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-B2

<400> 17666

ggagatcgac ggctgcttgc cgcactcgct ccagctgcca gccggccaca ggcaactatg 60
ggcgccggtg ccgcccgcgc ggggcctgct acctttctcc cgcgcctccc ctgcccacgg 120
tctccgtctc ctatgctccc tctctcggga cggagagccc atcccgtcgc cgctccgctc 180
tgtctctccg ccaagcgccg cgcctgcgcc gccatgggct ccagctcctc ctccaactca 240
ggaaatcaaa cgtcactgat gctgccgttc agctttacat tcgatgaaga ttcttctagt 300
tccagaaggc tatatagatg gaaaagggtt ttgctcaaag taagtgggga agctcttgcc 360
gggaatcaca cagaaaacat cgacccaaag attacaatgg ctattgcaag agaagttgct 420
tctgtcacca aactaggtgt 440

<210> 17667
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-032-Q1-K1-H5

<400> 17667

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attgctactc atgaaggggt gaanctgtta cccacataac ccatatactc aacttagtct 120
actatgcac aaacaatgag cttgtgagga cacaaccct tattaagaag tccatgtgac 180
aagttgatgc tgaccattc aagcagtggg acctcactca ctatggagtt gacattaata 240
ggaataataa aacc 254

<210> 17668
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F8

<400> 17668

ctcacgacca cgaaccaacc gacagaaaga gggacgaatg gcgagctctc agtgctgcga 60
taaccgcgcg ggcctgaacc cggcctgcgg ggagggcaag gtcgtcgaca gcttcggcgg 120
gttcaaggcc tacgtcgccg gccccgagga ctccaaggcc gccgtcgccc tcgtcgccga 180
cgtcttcgga ttctaagcgc cgattatgag gaagatagcc gacaaggttg cttcgtcagg 240
gtactttgtt gtgataccag atttgtttca tggggatcct tatgcacctg agaatgttga 300
gaagcccttt actgtgtgga taaagtcaca tactccggag aaagggtttg aagagacaaa 360
acaagttatt ggggctctaa aggagaaagg agtgtctgct ggtggagctt caagggattg 420
ctgggggt 427

<210> 17669

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F9

<400> 17669

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catagcacgt tatggcctag gtaaacygga agtacttgac gtgatggcaa tcatggtttc 120
tgaaaaaagc actgtgctga agatcatctc tgaactctta ccttatcccc tctttgatat 180
tgacaaatct gtggtgacag ctacacacat gcacttgagc cgatgatata ttctacgcct 240
acagataagc cctctgtaat gatactctta gaatcttctt cacttatctg catttcatgc 300
tacaattagc agttgccacc agatgcactc atgacatgct aactgctaac ttcttatata 360
tgaccattgg cctatacgat tatgtcgatg ataccttgta tactctt 407

<210> 17670

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G10

<400> 17670

ctgtcgagta caagaacatt agtttcactg tttgggatgt cggtaggtcag gacaagatcc 60
ggcccctggg gaggcagtac ttccagaaca ggccaagcct catttttgtt gtagacagca 120
acgacagaga gcgtgttggt gaggccagag atgagctcca tcggatgctg aatgaggacg 180
agctccatga tgctgtgctt ttggtgtttg caaacaagca agatctgcct aatgccatga 240
acgctgctga aatcacccgat aagcttggcc tgcactccct gcgccagcgg cactggtaca 300
tccagagcac atgtgctacc tctggtgagg gtttgtatga cgggcttgac tggctttcga 360
acaacatcgc taacaaggct cgaagcatct aggcattggc tcaatcagtg gaagcaaact 420
gcctctacca ttacagctat gaagtatata gtcgtgactg tgt 463

<210> 17671
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-G11
<400> 17671

gaataagtga gatagagagg tttgactgtt ccaacttccc cagcagaatt gcaggagaga 60
tgaaatcctt ttccggtgat ggttgggttg tacctaaact tgcaaagcgg atggacaagt 120
ttatgctata tctgataact gctggaaaga aagcattaga aaatgggtga ctactgaag 180
aactgaggaa cgagttggac aaaaccaggt gcggggtcct cattggttct gcaatgggcg 240
gcatgaaggt ttttaatgat gcaattgaag cactgagggt ctcttacaag aaaatgaacc 300
cattttgtgt tccttttgca actaccaata tgggctctgc aatccttgca atggatctgg 360
gatggatggg accaaattat tctatttcca cagcctgtgc taccagtaac ttctgtatcc 420
ttaacgcagc aaaccaca 438

<210> 17672
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-G12
<400> 17672

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aggttggcaa gaagaccctt gctattgatg attgtgattc cagacaatct gtctatgtgt 120
atggatgcaa ggattctgtc cttcaagtaa acggcaaggt taacaatata actgttgaca 180
aatgcactaa gtttgggaatt gtattcaagg atgttgtagc agcttttgag attgtcaact 240
gcaatggcgt tgagggtccaa tgtcagggtg cgtcaccgac aatatcaatc gacaacacat 300
ctggatgtca attataactta agcaaagatt cgctgggagc ttcaattact tctgccaaat 360
ctagcgaaat caatgtgatg gttccaagtg gtggcgctga tgggtgattgg gtggagcatg 420
cattgcccta acagtacatc catagt 446

<210> 17673
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G2

<400> 17673

aacaataact ggtataagtg atatggatcc ttttaagggtg aaaaactccc aatggcggaa 60
tggtcacgtt gcatgggatg aagcagcacc aagtgagaga cgcaccatgg tttgcctttg 120
ggaggttgaa cctgttatcg ctccattctt catttatccc tcgccattgt tcaactgcaaa 180
acgtccgagg caacctgggg taacagatga tgatagctca gaaatggaca atctttttta 240
gcggaccatg ccatggtttg gtgaggaggt tggcaagaga gatctg 286

<210> 17674
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G4

<400> 17674

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ggcgcacca tcgggccggg tacgcactgc cgcccaacga tctacgagct gccatggcta 120
actcagcggc accgggagga atgaggtcgt tcttgaggc cgtgtctacg gtcaccgagg 180
aggcgccgac gccactccgc gtcgtccaga tggagggcct ggctgtactg aagatcatca 240
agcactgtga ggagtttgcg ccagcttttag ttacagggtca attgcttggt ttggatgttg 300

gtagtgttct ggaagtgacc aactgttttg cgttccctat caggga 346

<210> 17675
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-032-Q1-K1-G5

<400> 17675

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ttcgaccccg agtcttgccg ccactaccgg gattgcctgc gccaaagcgc gatctgaacg 120
ctgcgatcca agtagtcgct cgaatccgcc atgaaagagg ccaaatacaa tggcgccgac 180
aaggccgatg ccaagctggc ggcaagagc aagggtggcag acaagccgcg caagggcaag 240
aaggggaagg acggcaagga cccaacaag cctaataagg ctcccagcgc tttcttcgag 300
ttcattgatg aatttcacaa ggagttcaag gag 333

<210> 17676
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G6

<400> 17676

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acggtatggt ttgacgggtg cctacattgc attgaaggca tacgagccct tacaaacgag 120
catgatgaaa ttaatcgctg gtctgcttgt acacaacgtc aatttacgtt ctactgataa 180
tctgactgcc aatttcgttg acttcatacc aaagtgaaaa ttagtaccga gatgcttggt 240
actgggggttc tggtcttttc aaatctttat accttatatc ctattgtact tctataacct 300
gtattaataa tcta 314

<210> 17677
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G7

<400> 17677

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ggtatagctg gcacgggtat ttaactaact aactaactgg ctagctagct agatccgcat 120
agcaaagcta aagcagcaag aagcaaagca atggagaaca ctgcgagtgt gctagatcta 180
ccagcgcagt tcaccaaact caccttcgga aacctgtaca tccgccgggc cgggccgggc 240
agcagggaga taa 253

<210> 17678

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H1

<400> 17678

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gagcggaccg ttcacctctt cagggttacc cacatggcga gcgatatcct acacctgctc 120
aaggttactc ccaggggtcaa ggcggtgcat atcctacccc tggataattc cctgcacaag 180
gttgctacac ccagcagat ggctcctacc cagcacaagg ttcctaccac ccagcacagg 240
gttactaccc agcacaaggt tacgattgac cagcacagcg atcctaccca gcacaacgtt 300
catatcctac acccccagca caagggtcag ttcccccatc acagggcttg taccatcac 360
aaagattcta cccacacag gcttaccctg gcaagttaag 400

<210> 17679

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H10

<400> 17679

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aaatgactca caggttggac tagtgtggtt ttataatagg gcactgcaa cgccacacaa 120
gaacaaattt attgctcgct caaaatcgta ccatggatca accttgattg cagctagtct 180

atcaggtctg ccagcgcttc atcagaagtt tgatctacca gcaccttttg tcctgcacac 240
agactgccct cactactggc gattccgtct tcctgatgag acagacgaac agttttgaac 300
tagacttgcc aataattcgg agaatcttgt cctcaaacaa ggacctgaaa caattgctgc 360
tttcattgct gaacctgtga tggacgctgg tgggtgttatc cttactccaa aaacctattt 420
tgagaagatt caggcagttc tgaagaagta tgacatcttg gtaattgcgg atga 474

<210> 17680
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H11

<400> 17680

aggctcagtc gttgactacc gcgaggacat tggatcaggc agatctttat ttgatgcaaa 60
catgggccta tgcgagcagc ctgcggagtt cgagttttac gatccgaaaa caccattctt 120
cacttccccct cggtacttgc caccaacgaa ctccataag tgcaagatta aagacgcgat 180
catttcacac ggctgcttct tgcgtgagtg tgccatcgac cactctattg ttggtgttcg 240
ctcagccta aactctggat gcgagctcaa gaataccatg atgatgggtg cggattcgta 300
tgagaccgaa tacgagatct caaggctact ggcagagggc aagggtgcca ttggcgtatg 360
ggagaacacg aagataagca actgcatcat cgacatgaat gccacggttg gaaggaacgt 420
ctccataaca aacaaag 437

<210> 17681
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H12

<400> 17681

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gtaacctgga agcttgctta caagaatggg ggtacgtggc ataaggacct gtgcagggtc 120
tgtgaaaaca tccacattgc actctgcggc aataaggttc atgtgaagaa caggcaggcc 180
aaagccaagc aggttacttt ccacaggaag aagaatctgc agtactatga aatttctgcc 240

aagagcaact acaactctga gaaacctttc ctgtacctag caaggaagct ggctggtgat 300
 ccgaaccttc actttgctga agctgatgct cttaagccta cggaagttac catcgacatg 360
 gctatgcagc agcagcatga agctgagctt gctgcagcag ctgcacaacc tcttgctgat 420
 gacgatgatg atct 434

<210> 17682
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-H2

<400> 17682

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 tgtcagcaact gggagggttc tccggcaggg gcgacagtgt ctccggcctc atccgcctcc 120
 gccgtcagat ggcccccgcg ctgcgcggcg cgtcgcacca cgccgctggg acgttgaaact 180
 gcgcgcgctt gccgatgcc gcccgcctcg tctggggacg ccagctccgc ccgtcgctcc 240
 tcctccccgg cacactgctc ccgtcgctc 268

<210> 17683
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-H3

<400> 17683

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 tctctcaatg tgctggctcc cgaccttggc gcagcatacc cacaccatat acagatccac 120
 tattcaaaaa aactactacc tcaccacat cgaccttaat tcattcctat ttgcaccaa 180
 cagttaccaa aacatacatc actggatctc ataca 215

<210> 17684
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-F7

<400> 17684

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gggcctaaac gagggcaccg ttggccaata ctagtcacac atggcggttca caatgcctga 120
cctgtaccgc gttgtccaca gcattgatct gttctataca aagttcaaca tcttagatta 180
ctgtcacgga cctgtccatc tacttcccgt acaccgagtc gcacaagacg ctgtcatccc 240
ttcacccctga gat 253

<210> 17685

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-D8

<400> 17685

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atgggtctgag aaaactggtg tatttggcta tggaattaca ctttttagagc ttattacagg 120
acagcggggcc ttcgatctag cttgccttgc taatgatgat gatgtcatgc ttctagattg 180
ggtcaaggga ttgctcaagg agaagaaact ggagagtctg gtcgaccaag atctagaaca 240
caactacgtc gacgttgaag tggaatctct ggtacaagtc gcactactat gcactcagag 300
caacctcatg gaacgcccta agatgtcaga ggttgnagag atgctcg 347

<210> 17686

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D9

<400> 17686

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taccggtgat caccgactgg gtatgggcgt gtacgcgggc ccgggggcag aggcccagac 120
gcagccggag ccgtacgtgt ccacgtgggt caagactgcg cgcaagtact acgacaccta 180
caaggcgctg taccggcgct tgcgcctatg atcccacgcc gtcgaccgga actgctgcct 240

atgcaggcgg ctcacggagc gggacctcct taggctcacc gccagggggg caccgagccg 300
cgccatcaac ctggtgctca cggccggcga cgtggctcgt ggaccgattc tgagcgtaca 360
ggtgcggggac gcacgggtgcg ttcacacggt cccgtgccgg ccggttcacg tacgtgtggg 420
taggcaaccc ggtgtaac 438

<210> 17687
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E1

<400> 17687

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ggcatggagc tgcgtgagca ctgccgcggt atgggtgaca acgatgagcg aactataga 120
ttccattctc tgtgctgaca ccaagggtgct agaaccatta gttgggctaa tgaacacgga 180
gcagcagcaa caatatcgta aggagaatgc atacgttggc caaatggtat gccatatctt 240
cagttctctt atgatgcttc aacgctgcat cttcagtttt ctcggtataa aacagatcat 300
agtcaatagt atacctatgt gtgaaatact gtaaaacttg catggtatat ggacctcaaa 360
aagtatagga aagcgctatg ctatttgcac gtttgctggg agaaagaaaa gatatatgaa 420
aggaattata caggttct 438

<210> 17688
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E10

<400> 17688

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gaggcaccac cacttcggga accaccacaa gaaggacgag gagcagcccg ccggcgagta 120
cgggtactcc gagaccgagg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa 180
gaaggaggag aaggagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc 240
cggcgcttcc gcactctacg agaagcacga ggcgaagaag gaccccgagc acgcgcacag 300

gcacaagatc acggaggagg tcgctgccgc ggcggccgtc ggcgccggcg gctacgtatt 360
ccacgagcac cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa 420
gagcaccacc acc 433

<210> 17689
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E11

<400> 17689

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aagggcccgt tctgcaaggc ggacctattc cacattgaat acagtctctc caaggactat 120
cacctcccgg gcttccgcga cggcatccac tactgctaca actacgacat ggtggcctgc 180
cctgcgcaag aagtccatct tccgactcgt ctcgctctac acgcagcact tactggcaag 240
gatgctcatc taccctgaaa tcatggtacc gttcctcgac tagagcgcac agcggctgac 300
tgagcgccac gaccgcttca tcgctgacct acgcaaggtc ggcatatcct gccatggctt 360
caacgcgtgc ctcttaacct ggatggactt gcctatcatg ctactctaga agactcacga 420
cacgacactc g 431

<210> 17690
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E2

<400> 17690

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gagcgagagt gcttgcttga tcagcgtagc ccaacatggc aatgctatac ttgtgatcat 120
gtacaaatat agagtcacag aatacagcaa gggcaatgca tatgctcatg ttgccattgt 180
caccaatgat gtgtacaaga tcgccgagac gaatcatctg accaccaaag aactaggtg 239

<210> 17691
<211> 268

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-E3

 <400> 17691

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 agcgcattgtt ggccggggat ggccgggagc ggggtggagga ggagcgcggc ggccggggtc 120
 gcctggcgcc cggtcacggt ttgcctgtgg ctgcgcctcg ccgccggcgt actgacgctc 180
 gccagggcta agaaggacct gacagaggtt acccacaagg tctacttcga catcgagatc 240
 gacggccagt ccgcatgcct gattgtca 268

<210> 17692
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-E4

 <400> 17692

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 cagacagtgc agaggccaag gaaggtgtaa aggcaacctg gatggcagac ggaacacagt 120
 ggccaggaac atggtttgac cctgctgaaa accataagaa agggcaacat gctggaattg 180
 taaaggttat gttgaatcac ccgggcgatg aacctaggtt tggcggacca gcaagtgcctg 240
 aaaccct 248

<210> 17693
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-E5

 <400> 17693

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 cgggtctaac cctaccggtg atagaataaa catagaaggc gctttctggt tgccgtgttc 120
 cacaaggaag agagctagtt atagatcttt ccgagtgtac agattatttg gagggagaa 180
 ggataaagat gagaatggcg atgaagcgcc atcgaaagca ggaatttttg gaaacataca 240

aaatctctat gaaactgtta aaaatgccca aatggttgtc caagtataag ctgaccgggt 300
gcagaatgag cttgcagcga ctgagattga tggatattgt g 341

<210> 17694
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E8

<400> 17694

gccgttcaat atcatctgca gccaagttc gatgcatgag ttcggcatgg ggtggggatg 60
gctgctatatt tgggggtgag ttggtggatg aaaattcaag ttattgtcga agacaacaca 120
tttctttgca tattacatcc tgctatgatg ttctgaacta tgatgggttc aacgggtgcc 180
atTTTTctct tagagctatt gttgacatgg aagaaatggg ggacagacca gcttagtatg 240
gacaacaact gaaatctcct acagaagttg tttctaattg gctattgagc tccattgagt 300
taaggcctac gcaatcttgt tctccagtct ggctccaaga aaagctctat agtcccatag 360
tttctgctaa ggttcaacaa cttcaggatc aattataggc tgagaagcaa gaaaa 415

<210> 17695
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-E9

<400> 17695

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ataggaagat ttgttcgggc atatccaatt accaccctga tcaactggcag ccatcatgga 120
gtgtgcgcac agcgttggtg gccttcattg cattcatgcc aaccaaccct gctatgcatt 180
gggctcattg gattacaaaa aggaagatag acggacactc ggtataaaat cacctgaagc 240
accgtctaaa tttgtgtact cagaacgacc taaactaatt gatgagatcc atgagcaaat 300
gctcagtaag gctgctactg tccccaaac gctaccaaatt gtgccacacg aggagtctaa 360
cgaattaccc gcatctgacc cttctggcga gcatgcagac aacgtagatg aaggcgacaa 420
cacatatgat tatgtatcag act 443

<210> 17696
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-F1

<400> 17696

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 cttcaccatg ttcttcgcct tcgcggtggc atcattgaac cttccctaca ggcgctcgcc 180
 acgcagtaca accaggacaa gatgatctgc cgcaagtgct atgcacggct gcaccccagg 240
 gctgttaact gccgcaagaa gaagtgtggc cacagcaacc agctgaaggc agagaagaag 300
 atcaagaact gaagcttgcc aaatcgggtgc cttgcatgga gtgcgtcaac 350

<210> 17697
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-F10

<400> 17697

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 ggaccatggc gttggtcccg cgcaccgcgc ggctggccct cttttccacc ccgcggggtg 120
 actccgctgc cgctgctgcg ggcgcctccc cgacgtcccc agcgccatac gggggcgccc 180
 ccccaccggc gatgtcgaag acggccgagt tcgtggtctc taaggtggac gacctgatga 240
 actgggcgcg taagggtcgc atctggccca tgaccttcgg gtcgcctgc tgcgcggtgg 300
 agatgatgca cgccggcgcg tncgctacg acttcgaccg gttcggcgtc atcttcgctc 360
 cgtcgtcgcg ccagtccgat tgcattgatc tcgccggcac gc 402

<210> 17698
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F12

<400> 17698

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ttagagggg aagacaggcc cccagcacat cgagggtgcaa gcagagacta caatgtggac 120
atggtgccaa agtttatgat ggcaaatggg acattgggtc gaacctcat ccacactgat 180
gtgacaaagt acttgtcatt caaagctgtt gatgggagct atgttttcag caaagggaag 240
atttacaagg tccttgccac tgatatggag gctctgaagt cccctttgat gggctctattc 300
gagaagcgca gagcaaggaa cttcttcatt tatgtccaag attacaatga agctgatcca 360
aggacacatc aaggattaga cttactagg gtgacaacta gagaacttat agcaaaatat 420
ggtttaagtg atgatacagt ggatttcatt ggacatgcac ttgc 464

<210> 17699

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-F2

<400> 17699

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cagctgaatg ggcagtgcct tccttggcgt gttcagaggg agagaagaaa gagaacgggtg 120
gtgccactga accagcagca cctgcttcag ctgatgcaga caagggcgcg gagaattcag 180
gccaggtgaa caccgcccc caagaaccga cggcagcgaa ctgcgacaag gggcagatcc 240
aacctgggtgc ctctgctgtc aggtgcacat aanggagctt ggtctccgat gagagaccga 300
tgctttgtgt gtttaaggca atacctcgca tttgctttga gaattataat 350

<210> 17700

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F4

<400> 17700

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ctcagtcctt ggccatgtca taccatgatg ggggatccat actactgtag cgctgtggca 120
gcagcttatg gtacgtatgc tatcatgcac actcagctgg ttggcatggt ctcgtactct 180
cgagtgccaa tgtagatcga gccatacgct gaagagccca tctatgtcaa ctcgaagcag 240
taccacgcta ttatccggag gagacatc 268

<210> 17701
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-F6
<400> 17701

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gggactgggg gcgggcagga cttcttggtc ttgggagtggt cagcagtcag caccttggac 120
tgggcagacg gcggctggct taacacccat ctcatctgaa gcaggtacag catgctcatc 180
gaccaggctc aggcgatcgt ctggcaatct ggcattggcg acttgaccgg accatgtccg 240
gtgagtcgct cgctgtcatg ctgttgcccc accggcactg cctatcttcc acctcaacca 300
gcgttcacga gtactatgca aaataccttt tatgctgcta aaataacgaa atggacgtgc 360
gtgcagacgg ccggattact ggcgctgccg ctt 393

<210> 17702
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-D7
<400> 17702

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tggggtcacc cactcgagtc ggaggataag gttgtcataa ccataccgct tgagcttgtt 120
gatggccttc tcggcgctct ctctgtgaac aaagtgcaca aacccaaacc cctgtctcga 180
atcgcatatt tctgttgaat tatatcagta tgtttgtttg aattactggg acctgagtca 240
tgaatttata ttgttggtaa aacctgttat gtgtggtttg gttggtcgag aataactata 300

ctcactttctt tt

312

<210> 17703

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-C10

<400> 17703

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ggggaagctc ctgggacggc ctcgaccgtg tcacgtacct aaacacatac ttttgcagct 120
agcgaactac atacctgcaa ttgtgccaac aacatcaggt aatacacgcg ctgccttctc 180
gcccattctaa atacattctg caagaactag acgctttacc ttattcaatg ccgttcagcc 240
atgcttgtct cgctcttctg cttctgttcc aacctgatgt tatgaaacgc cgttaaattc 300
taccataccg actacttcaa gtctcatctg ctagacttta acttatactc gcactgtact 360
actcattaat cgcctagctt gattatgccc agagcatata cctc 404

<210> 17704

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-C11

<400> 17704

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ctggaaggtc atctggagac ctcgtggact ttatggcgac gaggatacaa acggccacgt 120
tgacaacatg tgctgcttca tcaaaccogg tgtgatectg ctgtcgtgga ccgacgacga 180
gaaggattat cagtacgaac ggtcggtcga ggcgctgtct gttctctccc agtccgtcga 240
cgcgaaaggg cggcagctcc aagtggtgaa gatccacgtc cccgggcctc tgtacatgac 300
agaggaagag gcacagggcg ttgtttcacc gggacattct gtgccgaggc cagcgggcac 360
gagattggcc gactcgtacg tcaacttcta catcgccaat ggtgggatca tagcgccttc 420
cttcggcgac aggtggga 438

<210> 17705

<211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-C12

 <400> 17705

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 ttctttaacc gaggtaagtt ccatctgcat tgtaactctt gttgctatac aatgagctac 120
 ctacceaatc tgtgtcattt ctgatataata cattctactg gaccagcta actaagttgg 180
 ttctcatctt cctcacttga atatatcatt ctgaaacttg ctgagtatat caatgacgtt 240
 atttcaatta tataatcaca ctctttttct ctccaaagc tctgcaaac tctactgatt 300
 actgacgcca ctacttcaac tcatcagttg attcaccat atataacact gactatgact 360
 tagtacactc ctgacgat 378

<210> 17706
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-C2

 <400> 17706

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 gttcattccc tgatacggtg gaactganga ggggtcgacg tgaatacaag gcaaagaaga 120
 tcaccgagga cgaatacatc agtgccatca aggaagaaat cagcaaggtt gtcaagatcc 180
 aagaggagct tgacattgat gtgcttgtgc atggagagcc agagagaaat gacatggttg 240
 agtacttcgg tgagcaatta tctgggtttg cgttcactgc caacgatgg gtgcaatcct 300
 attgatcacg ctgtggtgaa ccaccatta tct 333

<210> 17707
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-C4

 <400> 17707

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 ttgatttggg agtttgagg cgctcgagt gtcaggtaaa ccatagttta ctgaccaatg 120
 gctcgtacta agcaaactgc tcgcaagtcc actggaggga aggctcctag gaagcaactt 180
 gccaccaagg ctgctcgtaa gtctgcaccc acaactgggg gagtaaagaa gcctcatcgt 240
 taccgccctg gaactgttgc tcttcgtgaa atccgcaagt atcataagag cactgacctg 300
 ctcataagga agctttcgtt ccaaaggctt gtcaaggaga ttgccagga tttcaagact 360
 gatc 364

<210> 17708
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-C5
 <400> 17708

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 ggctgactaa ttaggaaagc tagttgagga ctaccttacc cgaaaggggc aagggcagta 120
 agggagtgtt cggtataggg aggttctcgg ggtgatcatg ttgcgatggc ttttcagacg 180
 ggggattcct atattgcgct ttctagaaac tgtagcgggt tttctgaagc tagtagaact 240
 ttgtaaaggc ctcgtagtgg atccatatcc attcaccgcg gaattgtcta aggggtctaac 300
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<210> 17709
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-C6
 <400> 17709

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 ccaatggaat cccgtcttgt caagcaaaag ttactaatc ttgtgcatgg tctatatttg 180

aacagcaaca atggcacagg aagtaacagt tgcaagcaga tgggtcttgc tgactcgtag 240
 tgcttagcca atctgaccat gtcataagca gattttcctg caagggatat tatctgtgca 300
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 gtat 364

<210> 17710
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-C7
 <400> 17710

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 cgtcgtactc gtctctctcg tcccagtgcc cgtccgcgag gatggcgtcg acgacggccg 180
 gtgacgagac gtagcgcgtc ttccgcaagt tcgacgcgaa cggcgacggc cagatctcgc 240
 ggtccgagct ggccggcgtg atcgagagcg tggaccacgc ggccaccgac gacgaggtag 300
 cgcgcgatgat ggatgatgcc gacgcggacg gcgacagcta catcagcctg cccgagttcg 360
 cggcgctcat ggac 374

<210> 17711
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-032-Q1-K1-C8
 <400> 17711

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 gctgcaagcg caccgcccgc cgtcgaaggc gaagacctag ttcccggctc gtcgggatgg 120
 ctgccgtggc ccgcccgggc cccggggcgc gcctcctcgc ggcgtcctc ctgctggcgc 180
 tggtcgtctc cgggcactgc ctggacgcgc accaccgcgg gctgaagcgc cggcggcgga 240
 agcacgagat ccattccccg gtcaagacgg tgggtggtggt ggtgatggag aaccgcagct 300
 tctaccacat cctcggctgg ctccgacgca cccggcccga catcgacggg ctacggggcc 360

gcgagtcctaa ccggcttaac gccttcgacc ccgcaatccc

400

<210> 17712

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D1

<400> 17712

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aggtggacca ctgataggga ttgcaagatt tggctgaact tcagttaccg gattgaataa 120

caacgaatac cagataacca atggaaagga gctcaaccgt ttaacaggaa ttagtggaac 180

atgtgatttt gtcaaggcgg acttcatgaa gatgccgttc gatgacaaca cttttgatgc 240

tgtttacgcc attgaagcaa catgtcatgc acctgatcca gttggttgct acaaggagat 300

atatcgtgtg tagaagcctg accagtgctt tgccgtgtac gagtgggtgca ttacggatca 360

ctatgatcct aacaatgcaa cccacaaaag gatc 394

<210> 17713

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D10

<400> 17713

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tgtgccgtag cgggggcccgt ggtggccgcg gtgctgctgc tggcagcggc ggcgacgacc 120

tcggaggccg ccatcacctg cgggcaggtg agctccgcca tcgcgccctg cctctcctac 180

gcccgcggca cggggtcagg cccctccgcg tectgctgta gcggcgtcag gaacctcaag 240

agcgccgcca gcaccgccg cgacaggcgc gccggctgca actgcctcaa gaacgccgcc 300

agggggtgca gcggcctcaa cgccggcaac gccggcagca tcccctcaa gtgcggcgctc 360

agcatcccct acaccatcag cacctgcacc gactgctcca gggatgaacta aaacctagac 420

cacgcgcg 428

<210> 17714

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-D11

 <400> 17714

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 ggcgacgacg gacggggcgg cgatggcgtg ccgcgcactt gccctccgct ccctgctcct 120
 ccccgacccg ctacaccgtc tcccggccgc ggcgccacct gtttggagag cgtcccgcgg 180
 tggccgccgt ccgcacctcc gctgctgctc cggcggcggc ggcggtgagc ccgggcagcc 240
 gacgcaagaa gctgtgctcg aggccatata caagatagca aggtctaaag gaaggggttg 300
 actcacaaca gatatcgta tgggtggtac tgtgactgac gatgcaagt atgaatggct 360
 tgttctggat cagaaagtaa attcctaccc cacagatcga ggatttacag caattggcac 420
 tggacgcgat g 431

<210> 17715
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-D12

 <400> 17715

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 acggcctcct cgacctggag ctctcgatt tcctctacat cctcgccgcc tgccccctgc 120
 ggcagcttct ccatcgtagc ctcgacgggg gcgaggacct cggatagacc agcggcctta 180
 gcggtggcag acctggtggt cggcgaggcc ttaaccggcg tgaaccctgc cgccgatttg 240
 ggctcgagct tccgcttctt gcccatagca acggcgacac ggcgtgggaa gacgggaatt 300
 gcgtcggtgct agggtttcga tggagaagag attgcggaac gaggggaaga cttttgccgt 360
 ttcatatagc tgaagtaggc aagtagctaa cgcggcgtcg gacgggctgt ctgtgcatca 420
 tgtgacctgc acctgaataa tgtaa 445

<210> 17716
 <211> 347
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D4

<400> 17716

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tggggcatgc tcttttatca gagcaaaagc tccgagctgt acttgagaat gctcgccaga 120

tactaaagat cactgatgaa tttggatcct ttgatcggtg ctgctgggggt tatctgaacc 180

acaagcctat agtaagcaag ttccgctatc caagacaagt tcctgtgaag agccccaagg 240

cagatataat cagcaaagac atgatgagaa gggggttccg aggtgtgggc ccgactgtca 300

tatattcctt catgcaagct gcggagctga caaatgatca cctagtc 347

<210> 17717

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-D6

<400> 17717

ggaagcagga gcttatcaca tgggtctgagt tcctggatag aatgtcgtca actgggtgtc 60

gatcaaactt gacggatctg gctcagcatc cattgtttga gcagataaaa gagctcagtg 120

aagacataat tgttcccga tactgttacg ctgggtggagg tgaactccaa tcacttaatg 180

cttggttttg tccagagggt acagtgcac cattgcacca tgatccgcac cacaacatct 240

tagctcaagt attgggcagg aagtatatta gactctatcc tgctttcata gctgaggact 300

tgtatccaca cacagagact atgttaagca ataccagtca agtagattgt gacaatattg 360

atltgaagga atttcccagg gttgaaaacc tggaattcat tgact 405

<210> 17718

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-C1

<400> 17718

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agccactgcg tcttgggtgac tacccttgt cegtgatatc attgactggg gaacgactac 120
ccttcttcaa agacgaacac aatgagaatc tatccggatc ctataaact gttgccgtta 180
aactactaca cctcagcatt ctccaaatac atcgatatct caccaaacta ctcacctgtg 240
ctcaaacctg acgaccccta caccagtcaa gacattaaca tgcctcactg gaatcccatt 300
ggtccttcta tcggaaatcc atggatctac atgtaccctg aaggcttgaa ggatctcctt 360
atgatcatta ataaccaata ctgaaaccca cctatctaca tcacggataa ccgaa 415

<210> 17719

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A11

<400> 17719

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gcggttcac gcacggcctg ctggccgcac actgtgcgcc ggcggtgaaa ccgcggcagc 120
tgagctcgca actcgcgctg ccgtcaacgt actaccgca gccggccctt ctccgcacgt 180
ccaccgacga cgctctggag ggcctaagg agttcgtggc cccgcagctg gaccccagca 240
cgccgtaccc gatcttcggc ggcagcacgg gcggtctgct ccgcaaggcg cacgtggagg 300
agttctacgt catcacgtgg acgtcccca aggagcaggt gttcgagatg cccacc 356

<210> 17720

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A12

<400> 17720

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ggaggcttgg gatatgcgtc agagcttggg aactatgcag agtatagtgg tgctcctaata 120
gaggaggagg ttctgaatta ttctagagtt gttcttgatt gtgcaactgc tgatcctgat 180
ggccgcaaga gagcccttct cattggaggt ggcatagcta acttcactga tgttgctacc 240
acattcaatg gcatcatccg agccttaagg gagaaggaat ccaagttgaa ggcttcaaga 300

atgcacattt atgtccgccg aggtgggtcca aattaccaat ctggactggc taaaatgcgt 360
aagcttgggtg cagaactcgg cgttccaatt gaggtgtatg ggccagaagc gactatgact 420
ggaatctgca aacaagcaat tgaatgca 448

<210> 17721

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A2

<400> 17721

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ccggagcggtt cgtggggatc cgcgcgggga agttttttca tcgcggggac tgggatgggt 120
agccaaaacc cgacggtgaa ttccccgttg ccatctctac ttgccagtcg agatggaata 180
aaataaatgt caggcgcacg tactgacgtg ttattacgat atttctcccc tacagataaa 240
tgctctgttt attccctgcc taacttatct aacttttcta tttaaagttg aagttagtta 300
tttaattcga acaactaatc ttaaatgaaa tatggtatag ttagccacaa atcagacaga 360
cctaaaaact cggtcagcaa ggtggccaat ggtattatta tttaaaaaac ttgatcttgc 420
gaatttacac 430

<210> 17722

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A3

<400> 17722

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cgtttcttgg gttggtttgc tggctcggct ggaatgtcat agcaggtact acagcttggga 120
tcaaggggga aggtgttaag atctggttat tggcaataat ttacttcata tctggtgttc 180
ctggagcata tgttttgtgg tatcgtcctc tgtataatgc aatgaggact gatagtgcac 240
tgaagtttgg attgttcttc ttgctttact tgttccatat tcttttctgc gtgtttgctg 300
ctgaggctcc tctgtctgta tttgagggat aatcattggc aggaattttg ccagcaattg 360

atcttatcag cgtgaatgct ttgggtggga tattctactt tgttggattt gga 413

<210> 17723

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A6

<400> 17723

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catacttaat ccagggtat agtttaacaa aaacaactag acctaact gtcttatata 120

tctactacat gaccctagtc agaatcactg gcatacctgc cacctacacc ataaattctc 180

tgaaaaaatt acccgagatg ggctatgatc cactcggaat ccct 224

<210> 17724

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A8

<400> 17724

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agaggacaac attcttgata ccagaacata tgatgttagc ataacgtatg acaagtacta 120

ccaaactcca cgtgtctggc taactggata tgacgagtc agaatgccat taatgcctga 180

acttgtgttt gaagacatca gccaaagacca cgcacgaaaa acggtgacta ttgaggacca 240

tcctcactta ttggctggga agcatgcac agtgcacca tgcaaactatg cagctgtgat 300

gaaaaagatc atcgacgttc caatgtcggg gggagtggaa ccagaagttg acaagtacct 360

tttcataattt ttgaaaatca tagcgacagt cataccgact attg 404

<210> 17725

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A9

<400> 17725

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tctaccatca gcgaagtata caaagatacc cagtctcgtg catctggtga agcatgcaat 120
gatggtcagt ctcatggtga tgaaaatatg aaacttgggtg aagcttacac tgaactgcag 180
ctggcacctt cctctggtga ggacgccatg acatgtatct gtagtgagct gccagccat 240
gaggtggagg ctccaagcag tgaccctttg gagaataatg aagaaacgaa aaatgaaact 300
gctgctcaag gatcagtaaa tgaggattct gctcctcgtg ctgaacatgc acagattgat 360
gaagctgaca cagaacacga actgcttcca tctgggtg 397

<210> 17726
<211> 342
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-032-Q1-K1-B1
<400> 17726

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gagcgcacgg gggtnagcga tgctgagcat caccagaagc agagcctgat ggacaaggct 120
aaggggttcg tcgcgagaaa gatcgcgcac atccccaagc ccgatgccac gctggacggc 180
gtgacattca agggcctgag ccgggagtg c atcacgctgc acagcagcgt gaacgtgtcc 240
aaccctacg accaccggct ccccatctgc gaggtgacct acacgctccg gtgctccggc 300
aaggaggtgg cgtccggcac catgccggac cccggctgga tc 342

<210> 17727
<211> 331
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-032-Q1-K1-B10
<400> 17727

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agtgccttgc ccaccccgga tgctcttccc gaaccgcata aactacctgg ccccgatcct 120
cgctccgcc gccatcctgc tctctctact ctggggtac ttctagctcc ccttcatctc 180
caccgccaca cactcctcg cggacgcaac gcgcttacc accgcgctcg actccgtcag 240

atcgcgcgac cgcaaccctc tcaacctcgct cctacaggcc ttcgcgtgct gggacaccga 300
cgtaggctgc ccccgcatcc gcaccaagct c 331

<210> 17728
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B11

<400> 17728

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gtgatcacct acggggcttc ttcgctttac ctggccccac ttccgacact gcattttcat 120
ccgcagccct cttatccac ctgcgtcatg actgcacgca agtactacta cacctacatg 180
ctcatttccc ggccctgcga cctcgctccc acgcctttga ccggaactgc tccctcttca 240
ggcggctcac ggatcgggac ctctcatgc tcaccgtcag aggggcaccg agccgtgcca 300
tcaacctgtt gtcac 316

<210> 17729
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B12

<400> 17729

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ccgggctggc ggacccgggg cgacagaacg ggcgcacgtt ggcccggttc gggttcgggt 120
tgggcggcaa ggcgaagcct gctccgaaga aggtggcgaa gacatcgacc tcctctgacc 180
ggcgcgtgtg gttccccggc gccgtggcgc ccgactacct ggacggctcg ctggtcggcg 240
actacgggtt cgacccgttc ggtctcggga agcccggtga gtacctgcag ttogagttgg 300
actcgtgga ccagaacctg gccagaatg aggccggcgg catcatcggc acccggttcg 360
agtctccga agtcaagtc accccgttgc agccctacag cgaagtgttc ggccttcagc 420
ggttccgcga gtg 433

<210> 17730
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-B2

 <400> 17730

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 atggtactgc aattgcacgt ggggtcctaa tgtatctatc tcaagggaac ctgagagatg 120
 caaatttact tatggatgag atgaaggaac aactaaaatc tgtaactcg gattttccga 180
 aaacagattt gattcagttc atcatgtatc ttttaccaac gcttgagaga gatgcttata 240
 ctcttttttag gacacttcga cagaagtata agacaagcac agatcgtgac actgtgtttc 300
 aggagttact ggacgaaata gctgcaaaat ttacaatat acaacgccag aacccttttag 360
 aaggactttt cagcgaaatg ttcaagatat aatgcatgag aaaagaa 407

<210> 17731
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-B3

 <400> 17731

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 cagctggctc gggcagaatc agacggccat catgtctgag gagaagcacc accacttatt 120
 caaccaccac aagaaggact agtagcatct ctacagcaag tacggatact ccgagaccga 180
 agtcttcacc ttcaccggca aaggctatta ctagaggtag aagaaggacg ataacgagca 240
 caaactca 248

<210> 17732
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-B4

 <400> 17732

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gccgagaaaag gaagaacaga tctagtatatt cgtctgaatt cataatatgt tcttctcttct 120
agctgagaaa tttagtatgg gcaacatcga agcatgatgt ctacctgtta ttgcattact 180
ctgtacttca ctggtcggcc ttaaattggtg tggatacaga aattatggat gtacatggac 240
atgttgcacc gagtgagaag caccacaggaa gcttattaga aggttttctg cataactcaa 300
ttagtaccat ggcaatgaaa gataatttct tagtagctgg tgggtttcaa ggagagctaa 360
tatgcaaaca c 371

<210> 17733
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-B5

<400> 17733

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ggaagacgct catgtggtgg gtgactgtgt aaagcatgtt ctccgagagc tgccatcatc 120
ccccgtgcct gcttcttctgt gtacagcatt attggaagcg tttcgctctg agactaagga 180
tgctaggata aatgctatgc gttcagctat atctgagaca tttcctgagc ccaatcggag 240
gttgctgcag agaattctaa aaatgatgca cactgttgca tctcacacct ctgaaaatcg 300
aatgactgca tcggcagttg ctgcctgtat ggcgcctctt ctgttgcgct cacttctggc 360
tggtgaatgt gagatggatg aagtatttga tatggatggt gatgattctt cacaggttct 420
tgctgcagca aacgccgcaa acagtgc 447

<210> 17734
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-032-Q1-K1-B7

<400> 17734

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atgctgggag gcgttgatc agatgagcaa tggatcgaat cttgcacgag ctacagtcac 120

acaaagtact aaaaagaaag agctggcttc tcccgaggct tcgagcacat ctgaaatgcc 180
 actactataa tgtggcacga aagaagtaca caatgtggac gacacagcaa taaccaatca 240
 aatgactaga cataatcatt gcgcaatggc ctaaatttgc tgtgttcata ccaaac 296

<210> 17735
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-032-Q1-K1-B8

<400> 17735

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 ggaaanatct cttgggttgc acactctgtt ggatgattgg ttgctagata tgctattgta 120
 agactttata aaccacctaa acgaacatca gaaattactc caaaactct gtattacaac 180
 aatatatgta ccatacatgg acttgaggca ccgaacttta taacagttgc gttaccgcat 240
 cttgottcca gaggaactaa tcaggttcct ttactatgtg gaagtactgc atttgaaaat 300
 agtgcattgt acattattca attgatatt 329

<210> 17736
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-A1

<400> 17736

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 tacggaacag gatccaggac aaaacagaac caaaatttg actcccgag ttcttagcta 120
 taatatagat atcgcattha gacatgcacc cgacgagtag agctctccac tcaaaccatc 180
 ctaagcctct actgtctcag ttggggcctc gagcacaaga cccttggtgg gctttgccag 240
 caggtcggtg tactgctgga acggggccat ggagaacttg gtctggctcc agaattcagg 300
 agtgaggaag ccgtaagtct tcatcaggca gtcgaagggt gccttgacga agttgccaaag 360
 ggtcttaatg gagccac 377

<210> 17737
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G5

<400> 17737

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 attggagagg gttacaattc cactgccatg cccgagcggc tctgctgttg ctggtgtctg 120
 aaagatgttt agggctcaac cttggctaag accggactgc attgtcggaa atacggcagg 180
 aacctcatag tagctcgttt ctaccttgat gacaaatgcg aagctgatgc agacgactga 240
 aacgatgcta gaaccccgat catacagtta ctgttatggc acacaatgct gttgattcga 300
 ccttatgtag ttaacattgg tgatcgatcc gctgataaat tatataagta tcatgcactg 360
 gtattatata aatcgcagtg tatctgggct gaattggctt gacggttat 409

<210> 17738
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G7

<400> 17738

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 gttcaatggg ttatctctgg ctggaaatcg ggtgggggat gacatatggg atgcccttat 120
 tgcaggacta agtaatacat cagagcttta aggatattca gcgaggatcat tgtataacgc 180
 cttacaagaa tatggtaaac agggaagctt actaagagta gctgtttgat gcattggaga 240
 atatggtgaa atgctggtga acaatgaagg catgctggat ggcgaggagc cacttacggg 300
 cacagaatca gatgctgtgg atgctgtaga ggtcgatcct aaccgatac 349

<210> 17739
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G8

<400> 17739

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 aatgccaccc agctctgccg gtcccgcgct tcgctgggca agccggtgaa ggggcttggc 120
 ttgagcatag gccgcgagcg cgcacagcgg agcattgcgt gccaggcggc gagcagcatc 180
 tccgccgacc gcgtccgcga catggagaag cggaagctga tgaacctcct gctcctcggc 240
 gccatctcgt tgcccaccgt cggcatggtc gtcccctacg gcgccttctt cgtccctgcc 300
 ggctccggaa acgccggcgg cggtagctac gcgaaggaca agctgggcaa cgacatcacg 360
 gtggaggcgt ggctcaacac gcacgggtccc aacgaccgca cgctcgcgca ggggctcaag 420
 ggtgacccca cgtacctggt ggtggagcag gacaaga 457

<210> 17740
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G9

 <400> 17740

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 acgagacccg aggatcttac ctgcggccct agacatcaag aacccccagt tcaataggaa 120
 gcttgacagc atgcttgaca tcaaccagaa gatcattgct gattcatact ccgactaaat 180
 aaccctattg acgaacctga aaacgattcc ttttagcccc tctatagtgt ccaacatcat 240
 gatcttctaa atcatgcaca ccatccagtc tggatcacca taattaccgc aatttgagcc 300
 ccggacttga tactgattct gtacaaagat atatcctcta gttattcacc ctgaatgac 359

<210> 17741
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-H1

 <400> 17741

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 gctgaccaag cagcaacggg tgaggcctgg ccgagccgct ctgcctggat gcacctgcac 120
 cgaccctaga gccactatga gagttcggag cgatggccga gcggtacctg tggagggggc 180

gatctggggtt cgatctcagg aggcgaggac caaggcaacg cacaacggcg accgagtgaa 240
cagtatcccg ctctgacacc agctcctcgt atagcatcgt ccatactagg gctgcgtaca 300
ccgacatgct actgaaaaag agatagatct ttatatacgc aaactgggtg agatcgcttt 360
ggcgaaagaa atgtattgct agcatcaagt ctgtcgagac aatacaacca atacaagctt 420
gtgcc 425

<210> 17742
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H10

<400> 17742

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aatgatggac gtgatcagca cc 82

<210> 17743
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H11

<400> 17743

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gggcagagaa tccgtaggcg cgcctcatac gattccgaga tccgtgcctc ttatcggcag 120
ccatgatgct gcgcgcggcg ggcaggcgac tcctcggcgt aggaggcggc gatccagcgc 180
ccgcggtcgc tgctgctgtg gcggcgagca ggagcagagg ataccacgag cgggtgggtg 240
accactaaa caaccgcgc aacgtggggt ccttggaaca ggacgacacg gacgtcggaa 300
cggggatcgt cggcgcgccg gcgtgcgggg acgtcatgaa gctgcagatc cgcgtcgacg 360
aggggtccgg caggatcgtc gacgcgcgt 390

<210> 17744
<211> 482
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-H12

<400> 17744

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ccgacctgca gcaaccagca tgtgccaggc ttcacacac aggctgagca gctcaaagcc 180
aagggtgtag acgagatcct gcttatcagc gttaacgacc cttcgtcat gaaggcgtgg 240
gcgaagacct accccgagaa caagcacgtg aagttcctcg ccgacggatc tggagcgtac 300
accaaggcgc tcgacctcga gctcgatctc acggacaaag gtctgggcgt gcgctcgaag 360
aggttcgctc tcctggccga cgacctcacg gtcaccgtcg caaacatcga agaaggcggg 420
cagttcacga tctctggcgc tgaggagatc ctgaaggcgc tttanaagcc gcagcaacga 480
tc 482
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<210> 17745
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H2

<400> 17745

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gccaatgttt gatctttgcc atatatgtgc atgggcacaa ggtgacttac ttgctccaac 120
caatttgga gaagccccca aagcccttca caatacttcc tcactattac catgaaaatg 180
tctcgatggg taacctatgt aagttgcatg gatggaaagt caaggagact gcactccgtg 240
tatttgatgc catgctcttc agcaatgaac ttgacatcct tgatatccgc tggcactagc 300
ttagcccgta tgtgtcagaa tttgtgctga ttgagttcaa ttcaactttt accggcatat 360
agaaggacct tcactttacg gaaaaccgac aacggattgg ctttgcagag tcacggttga 420
cctatggcat gat 433
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<210> 17746
 <211> 358
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H3

<400> 17746

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gatcatcgcc cagtacatat ggatcgggtg atctggcatg gatctcatga gcaaagccag 120

gaccctcccg gaccgctga ccgatcccag caagctgccc aagtgttaact acgacggctc 180

cagcaccggc cagtcccccg gcgaggacag cgacgtcatc ctgtacccgc atgccatctt 240

caaggaccca ttcaggatgg tcaacaacat ccttgtcatg tgcgattgct acaccccagc 300

tggcgagcca attcccacca acaagaggta caactgccgc caaaatcttc aacaacct 358

<210> 17747

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H4

<400> 17747

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tgtogctgcc gccgtacggg ctgcacccac atgttcgtcg ggcccttcgt caccctctag 120

cagcaccacg ctgagctcca cagtggttct tgcagaggtc tgtgatatac tactaggctg 180

aatacaccta cacaagaag agaaaagggg atcttgagga ggtttgtgac aactactgt 240

ggtgaataga cctatgcaca agagaaaaag ggaaagagag aatgttctca atgaattgaa 300

gtccctatgt caaaaacaag agcaaggagc tgttgtacaa gtggcttggt gaaggagcat 360

atcatatatt tgtaggagat aactttacac ttgattcatg ggcgactgga ttataggggc 420

attgataaac atcgttttaga atgttgcaat aaactttggt accaaacttt t 471

<210> 17748

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-H5

<400> 17748

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accacagaga agatcatcgc cgagtacata tggatcggtg gatctggcat ggatctcagg 180
agcaaagcca ggacctccc gggcccgggtg accgatccca gcaagctgcc caagtgaac 240
tacgacggct ccagcaccgg ccaggcccc ggcgaggaca gcgaggtcat cctgtaccg 300
caggccatct tcaaggaccc attcaggagg ggcaacaaca tccttgatcat gtgcgattgc 360
tacaccccag ctggcgagcc aattcccacc aacaagaggt acagcgccgn caagatcttc 420
agcagccctg aggtcgctgc cgaggagccc tggatatgta 460

<210> 17749
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-H6
<400> 17749

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ggtcgctgcc gccgtacagt gggtgcccag gtcttctacg ggccttctgc cagcgctcag 120
cagcaccagg ctgagctcca cagtggttct tggagaggtc tgcgatagac tactaggctg 180
aatacaccta cacagagaag agaatagggg atcttggaga ggtttgtgac aactactga 240
ggtgaataga cctatgcacg aagagaaaaa gggaaagaga gaatgttctc aatgaatgga 300
agtccctatg tcaaacacat gagcaaggag ctgttgatca agtggcttgt ggaaggagca 360
tatgatatat tagtgggaga taactttacg cttgattcat gggcgactgg atttataggg 420
cgttgataaa catcgtgggg agtgttggca tagacttt 458

<210> 17750
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-H7
<400> 17750

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acaataacac ctgtaaccgg atcagctcaa aatcctactg tggaaaggcc ctaaaaatct 120
 accaaaatca tattccatgg acttatacta aataaaatac cactcttctt aactgacata 180
 tcaaccatat atcataactca gaatcaacac cagcaaactc tcaagctact tcacaaagcc 240
 tacaaacttt acaacactta tgccctacag cataacacca ttactgacat tcaaccataa 300
 atgggcggttc ttcactacat t 321

<210> 17751

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-H9

<400> 17751

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 gcggcgcgga gctatgcctc cgcggggtcg gggacctcct gccgcgacgc ttgcgccgcc 120
 gcgcggcccg ttccgaggac cttgtaatgc ggctccagat tcaccggaag cttgacaggc 180
 acacgggctg cgtcaacaca atgggcttca atgaggtcgg tgacaccctc atatcggggt 240
 ctgatgatca gaaagtgatg ctgatggact gggacactgg caccgtcaaa ttagagtttc 300
 attcaagaca tggcggcaat gtgttccagg cacggttcat gccctgctca gacgatcgga 360
 ccattgtcac ttgtgctgct gatggcaaag agaggcttgc caagatacac gatgctcgaa 420
 acgtgtccac aacattgctt ggtgaaca 448

<210> 17752

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G4

<400> 17752

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 tgttgagacc cgggtggtggc atacattcac accacatatg caatctgctg atataactgg 120
 tggtttgaga agtactacaa atccagaaaa aggctatgga aggattcctg ctgtgggcaa 180
 ccagcataca agcaaccata tcaatggaca tatggaagaa agcctttaag gaagcgtcag 240

aactgctttg cctagtaagg gcagctggtc atgagtgtgg atgtttgcct atgttaacca 300
 agtttgtcat gtagcagtgc atagctaggt tggatgtcgc aatgttcaat gctatctagc 360
 gcgtatcaga tgatgcaatt ctaacagatc c 391

<210> 17753
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-F11
 <400> 17753

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 ggtgctggac gacgaggact cgttggtgtg gcccgccgcy tcgttcgaca tgggcgcgtg 120
 ctgggccggc gcaggggttcg ccgaccggga ccccgctgc atcttcctca acctcccgty 180
 acagccacac acggtcacgg cgccgaggct ctgctctgcy cctgatgatg agtgcaaggc 240
 aatggagcgc tttgattctt ctgctcttgg ttgcatctgc taattgattt agcagtggty 300
 gtaaggtaca cgcacgacga gctgactgcy tggttcttgg tttgggcctt agtatatgat 360
 gatgatgacg atgatactag ttgtatgtgt gacgtgagag acgatcgcga cgacgacctt 420
 gaattttagt ttctgagatg aaaaa 445

<210> 17754
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-F12
 <400> 17754

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 gtggacagag ggttttccga ccatgcattt cttgaggggg ggccattgca ggcccttggg 120
 tgtcttatga gggagggctc ggtttatttc acttggcttt gtagaatact gataactaga 180
 aaaagtagta ggacctcacc ttcgtgtatt atgatgatgc acatacaatt ttctgagtag 240
 aatggatggt gaatcataga actaatgaat aatatgaaca ctcgtcttcg cccaagtgc 300
 tagtttgg 308

<210> 17755
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F2

 <400> 17755

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 atgaaagact gaatggtcag gaccagctgg tcatacttac tgccaaggac aaaattgatg 180
 cagcagctgc tgaagtttta gaacctcttg tcatgaaaat caaggatgaa aagtatggat 240
 ggaaatatgg ctgtggagcc tagggctgta caaagctttt tcatgctcct gagtttggtc 300
 acaagcattt gaagctcaag catccagacc ttgaattaga gtcaacgtca aaagttcgag 360
 aggatcttta ttttcaaaat tacatgaatg atcctaac 398

<210> 17756
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-F3

 <400> 17756

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 ggcagctcct cgccacggcg cgctcttctt gccctgctg ctgctcctgc tcggcctcca 180
 cgccacgtcc gccgcgcgcg cgcgcgcggg cgtcgccgtg gacgccgagc tcacgtccac 240
 caagccgtcc ccggtcccga agaagcccag cgtgaagccc gccggccccg gcgccgtgag 300
 cccgaccttc ccgggcttcg gcacccccgg gatgggcgga ttcggcatcc ccgggatggg 360
 cggcggcggg tggggcgggc gctacggcg gcccggcggc gggtagcccc gcngcggcgt 420
 ggtggcgccc accgtgacgt gctccgaga 449

<210> 17757

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F4

 <400> 17757

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 cacgattcat aacgtcaatg gcatgatcca caacaaggag agcattacac caaaccaaca 120
 gttgctgatac tttatccaca atcatctgca agatggtaat accttgacta actacaacat 180
 acataaagag agcacatcta catctacttc tactcctcag agatatgtat cacatgttct 240
 gtgaatacat actacttcaa caccatcacc atcgatgtaa tatcatacc 289

<210> 17758
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F5

 <400> 17758

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 gggcatggga agcttcgact cgctagtgcc atggctcttt gcttcaagca gacaaactat 120
 gcaactgccg cacactgcgc taggatgctc tttgagaaca gccgctagga ggcccaagca 180
 aagaaggccc gacaggcgct gcaagcttgc catgacaagg acgattocca ccaactgaac 240
 tatgacttga gaaatccatt cgctgcttgt agcctacgt atgttgctat ctatggtgga 300
 caataggatg cttcgtgctc atactgagga tcccgatctg catcttccat ctaaggacag 360
 ctttgtacca tatgcgatct tgctgccgct ggggcagatg catcacgct gctctgctct 420
 catacacagt cgacgatcag cgatagta 448

<210> 17759
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F6

 <400> 17759

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 cttgtgagca gctattcaag attatgtgcc acagtggaat caagggacga aggaggtacc 180
 agtggagggtc gggcatggat tgcaactgga agtgaaggag aaatctatct cgcgttcttc 240
 aatctcgact ccatgagcag gacgatgacc gttgaaatat cagaccttgg aaaggttctc 300
 ggaagaaacc ttttggagaa aaacccatgt agctacactg aagtttggag cgggaagaat 360
 ttcgggtcccg tgaaggaaga gatttcagcg gtgggttcatt cgcattggctc catggtgttc 420
 gaaatcatat gttgagattg cagtactggg caagttgt 458

<210> 17760
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-F7
 <400> 17760

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 ggggagcggg tgccgcccga gagccaaagc caccggaga acagctatca ggctgtgccg 120
 tcgtcacaga ggatgccgtc gttcttctga ttctacaagg ctggccctac gtccgatcgc 180
 tgtatataaa aagaagtctc tcgttcgtga tctgagacag cacattgagc gaagatcgac 240
 tgcactgcat tctccagcgt tggaacctgt gtgatgttta tgccgctggg atttcagcga 300
 tcttctttgt ctctccgac cagcactctg gtttcattga gcgctgtaga ctgtctgtcc 360
 taactgatgt cttgcgttca ggaggacgat ctggaaacgc gagccgaagc tgaactgcat 420
 ctctagtcgc cgggtgctaaa agatgccgtc cgcttatatg aaa 463

<210> 17761
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-F8
 <400> 17761

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caggattgac aacgtcaagg ccaagatcca ggacaaggag ggcattccac cggaccagca 120
tcggctgatac tttgacggca agcaactgga ggatgggtcgc accttgccctg actactacat 180
tcagaaggag agcaccctcc acctgggtgct cctactcacg ggtgttatgc aaatttttgt 240
gaagacattg actggcaaga ccattaactt gcaggtggag tcgtctgaca caatcgataa 300
tgtcaaagcc tagattcagg acatgcaggg cattcacatc ggaccagcag cgctgatct 360
ttgctggcaa gcatctggag gatagtcgta ccctattcga ctacaacatc cat 413

<210> 17762

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G1

<400> 17762

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aacaaatgac atacacggaa caaccgctag aaagactaga ctacttacgc acggagcttg 180
atgaacactc atcataagcc attaaagact tgctttcaga tgcctcgcta gtgcgattta 240
ttgaatcaag gaactgcaat gatgcataaa gctagtgaag tgatgaaagc agctgtgaag 300
tggccgcttg cattcaaacc tgaaaacata tgctgggatg atatagcaca ggaagcagac 360
actgcaaaga tatatagcgc agtattataa ggacaaacat ggcacaactg ttattgta 418

<210> 17763

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G10

<400> 17763

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tatccacact tatctaacia agtacttctc attcaaagct gtttattaca actatatttt 120
catctaaagt aatattttaca atttccctct cccttatatt taggctctaa actccccctt 180
aatagctcta ttacataaac aaaaaacaag caacttcttc atttatttcc aatattacia 240

tgaacctgat ccatggacac atcaatgatt aaacctt

277

<210> 17764

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-G11

<400> 17764

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ggatcctcga cagaagaaaa cgtgaaggct ttgctaaaag tccttgtaga ctgtgccgaa 120

gatgccacca aatcactggg tggtttagta gatcatgctt cagaccacat gcatgatgaa 180

aagatcgtat ctagaacctt gtttgtcatt aaagaaagac tagaattgct acagcaagat 240

gccttagatg caaaagtgca agcatttcca gaaattgcta agtatcatgg ggatgacata 300

agtcttgaac ctacaactcc atcgacctct ccaactgtta ctgatcgatc ttttgatgaa 360

tacgagaatg tactgacccg atgtcagtga tgagtggtag ttcaccgatt ctgataggtc 420

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<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-G12

<400> 17765

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ttgggggtgat gcagagaaac gtgagattta tgatcagtat ggtgaagatg cccttaagga 120

aggaatgggc ggtggaggat cccatgttga tccatttgac atcttctcat catttttttg 180

accctctttt ggaggaggtg gtggaagcag caggggaaga aggcaaagga ggggagaaga 240

tgtagtccac ccacttaaag tttctctgga agatctttac aatggcacct taaagaagct 300

ctctctttcg cgcaatgtca tctgctccaa gtgcaagggc aagggtcga agtctggtgc 360

ctcaatgagg tgccttggtt gccagggctc angcatgaaa gtcactattc gtcagctggg 420

cccttccatg a 431

<210> 17766
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G2

 <400> 17766

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 gtacctggcg gagctctaca ccaaggagtg gacatctgac gccaaaggctc agtaggacgt 120
 gcaagcggat cggctcgcgg atgaccgaga tcgacaagcg cgtcagtcac acatgaacgc 180
 gtaccctcgg ctaaagaacc gagacggacc agccgagttg ccgtacacgc tgctctaccc 240
 caacacctgc gacaccaaag gcgacgccga cggcatcacc gccaaaggga ttccaaacag 300
 catatgcatt tgagttctgt ctgagctgag gacgtacggt cgtcgcacta gttgctagcg 360
 tttgcccgtt ccgttccgtg aagcgtgggt ctcacttgcg cggatttgag caaatagtcc 420
 agtactcctt atcgaagttg gtacgttagg actg 454

<210> 17767
 <211> 481
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G3

 <400> 17767

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 tatctctggc tggaaatcat gtgaaggatg acatatgtca tgcccttatt gttgtactaa 120
 gtaatacatc agagcttcaa ggatattcag tgaggtcatt gtataaggcc ttacaagaat 180
 atggtaaaca gggaagttta ctaagagtag ctgtttgggt cattggtgaa tatggtgaaa 240
 tgctggtgaa caatgttggc atgctggatg gggaggagcc aattaaggta acagaatcag 300
 atgctgtgga tgctgtagag gtcgctctta accgctactc agcagatatg acaactggag 360
 caatgtgtct ggttgctctt ctgaaactct cctgacgatt tcctttgaca tcagagagga 420
 taaaacaaat agttgcccag aataaaagga ctgttgcct ttgactacag caaagatcaa 480
 t 481

<210> 17768
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F10

 <400> 17768

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 ggggtcggcc ggcgagcgag cggggtccgg cgggctgggc attggttcgt gctcgtctga 120
 tcgatcagaa aatggctcat cgtgtgaaca acgagtacga ctacctcttc aagatcgtgc 180
 tcatcggcga ctccggcgtc tgcaagtcca acatcctctc gcgattcacg cgcaacgagt 240
 tctgcctcga gtccaagtca accatcggcg tcgagttcgc taccgcgaac ctgcatatag 300
 accggaagac tgtcaaggca cagatatggg acacggcaag gcaggagagg taccgcgcca 360
 tcaccagcgc ctactacagg ggcgcggtcg gagcgcttct agtctacgac atcacaaga 420
 agcaaagctt cgacagcg 438

<210> 17769
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D7

 <400> 17769

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 cgagggaagg ggaaccaaatt cttggacggg atcacataga tttctttggt gtaggaagga 120
 ggagggcaac aagaggtggt tacaggtaga ctaatagatc tactgctggt gagggagtgt 180
 atgcaaagct gatttgctgt gcgtaggctt tatttagaga tggcttttagc tggagtgtgc 240
 cgttcatgtt acaagaacat tactatgacc atcattgggt ccgaaaagtt gcgtagatca 300
 catgaacgag ctaaagatta gagatgatac gtgagtataa gcaaccataa ttaatgggat 360
 aggtatcgat gcttgtcaca taattgtcac aactactgtt ggcaagaa 408

<210> 17770
 <211> 462

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D8

 <400> 17770

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 atggcggcct ccatgatctc ctcgtcagct ctggcggtgg cgcctcaggg cctgccgccc 120
 ctcggccgcc gcgcctcctc cttcgccgtc gtctgtcca agaagaagat caagaccgac 180
 aagccctacg ggattggggg tggcctgacc gtcgacgtcg acgccaacgg gagaaagggc 240
 aagggcaagg gcgtgtacca gtctgtcgac aagtacggcg cgaacgtcga cggatacagc 300
 ccaatctaca acgaggatga ctgggtctccc accggcgacg tctacgtcgg tggaaccact 360
 gggcttctga tctgggccgt caccctcgct gggatcctcg gcggcgggcg cctcctcgtc 420
 tacaacacca gcgcctctc cggttaagga tatccaatgc at 462

<210> 17771
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-D9

 <400> 17771

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 tacgagaatc atcaggcgac gaangaccct ttacacgcac acaggtacaa gatcacagat 120
 gaagtacatg tcttggttga tgaaaccgcc tgcgattacg tattccacga gcaccaccag 180
 aagaaaatat accacaaaga cgccgatgaa gccactgtct agaataagca acaccaccta 240
 ttogaatgac cgtaatactc cgactgtcga cgatccagct agctagctct ggtgcacaca 300
 accacacaac atgttaattc tgtactgcat gcgtgacgta tttgatcgat cacaataat 359

<210> 17772
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-E1

<400> 17772

acgcaccaag atcggactat ggggcggaaca gggagggtcg gcacaggaca tcacggcaga 60

gcagcgggca cggcgtctgc acaggatcac cgtccgcgct ggcgttgccg tcgactccat 120

cgagttcacc tacaccgacg acgctgggca caggcgcact gctgggcggc ggggtggact 180

tggcggcaat gttcgaacga tcgaccttgg cgacgcagag gatgtcaggg aagtctcggg 240

aacatacagc gcatttgaag gtgccattac gctgacctcg ctcaggctcg tcaccagcag 300

cagaacctgg ggcccctggg gggtcgagaa cggacgcgtt tctc 344

<210> 17773

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-E10

<400> 17773

gggcgcacac tgccacacgg agctagctag ctgcaccgat cctctcgctc gcccgtagg 60

taggggacag gatctagcca gccggcgagg agccgccgtt gcttcctagc tgcacctccg 120

cgcgcggtct gcatgccagt cggctctgat ccacggccgg ccgaagaaga agacgcgcag 180

gatgaagggtg tcggtgctgg cgctgtggtc ggcggcgga gcgctgctgc tgggtgctggt 240

ggcgcaggcg ccgtctgcgg cagaaggctc ccaccacggc ggcgcggggc tcaagctggg 300

gtactacaag aagacctgcc caggcgtcta gaacgtggtc aagtaccacg tcgacaatgc 360

catcaaggcc aaccgctggc ctgcgcgcgc gctcgtncgc ctcatcttcc acgact 416

<210> 17774

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E11

<400> 17774

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gggcagctca caaaccttgt tctggtagac ctctcggaga atcaactgac tggggcaata 120

cctccacagc ttgggaacct ctctaacctg acacatttca acatgtcctt caataaccta 180

tctggcatga ttctcctga gccagtcttg cagaaatttg attacactgc ctacatgggc 240
aaccagtttc tatgtggctc tccattgccc aataactgtg ggaccgggat gaagcaccgc 300
aaacgagtgg gtgtgcctgt cataatcgcc attgttgctg cagccctcat acttattgga 360
atatgcattg tttgtgcttt aaacatcaag gcttatacgc gtaagagcac agatgaggac 420
atgaaggaag aagaagaggt tcttgtgtct gaa 453

<210> 17775
<211> 292
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-031-Q1-K1-E12

<400> 17775
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tcctcaccta caccttcaat tactattacc ataagtacaa taatcatcat aatgatcaca 120
atcacaaaca acacctcttc caagccatca ccctctcttc cagctccttc tcaactctacn 180
agaagcacta agcgaataaa gacccttagc acactcacaa gcacaagatc actgaagatg 240
tctctgccac ggcgccgctc gactcctact gctacgtatt ccactagcac ca 292

<210> 17776
<211> 465
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-E2

<400> 17776
acgcaatcgc gtcccaccgc cgctgcacaa gacgaggaag aggttcccgg tgccggcgcc 60
gacactgtgt gggcgatcat gaacgcgctg tgaaactggc tgctgaaccc gcgccgaac 120
ccgctcgcgc gctcgcacat gaacgcgctg ttctcgcgcc ttacgaaata cgggctgtag 180
tacgatgacc tgtacgaccc ctattttctac ctggacatca aggaggcgct cgggaggctg 240
actagggagg tggtcgacgc ccgcatacag cgcctcaagc gcgccatgga cctctgcatg 300
aagcatcagt acctacatcg aggacctaca ggcacagcag gtcccattca gaggatattt 360

gaatgacatg tcggctatgg tgaacaagga aagcgctgag cgtgaagcac tgggagccct 420
tccactttat cagagaacgc ttacctaaat cgctggctaa acatg 465

<210> 17777
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E4

<400> 17777

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cgatcgcgga agccagcggc aaagcaagca cgcccgtgtc tacaggcagc tctttccata 120
tggcgcccaa gaggagcagc gaggagcgcg cggcgggcgga gcaggagcag ccgaggctcc 180
gcggcggtgcg gaagcggccg tggggcaggt acgcggcgga gatccgggac cccgtgagga 240
aggcgcgcgt gtggctcggc accttcgaca cgcccgagca ggccgctcgt gcctacgacg 300
ccgcgcgcgc caggctccgc ggtccgagcg ccaccaccaa ctaccccggc gacgtcgttc 360
gagaagcgcc gtgcacggcc ccggctctgg ctgcgagcgc gagcggcagc accgagtcgt 420
cgtcgtcgtc gtcgtc 436

<210> 17778
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E5

<400> 17778

gacaggcctc cgatccagcg cagcacaggt ctcaacgcag ggtgacgga aagaagacgg 60
cgcgggagat ggcgaagggtg ttcagccggc tcttcatcaa gatcgacatc ctgatcctca 120
tgcacatcct caacgccggc caaaaacca ccattctata caagctcatg catcgccaca 180
tcgtcaccac catccccacc atcatcttca atgttgaaac tgatgattac actaacatta 240
acttcactgt ctgctacgct gactgtcatg acaagatcag acctatgagc aggcattact 300
tgcagcacac ctagcgtctc atccatggtg tgaacagcaa tgaccgcaac catgaccatg 360
aaccagaga tgaactccac aatatgctga acgaggatca gctacatgat gctgtacttg 420

atgcttttgt caacgagcaa gatc

444

<210> 17779

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E6

<400> 17779

cgccaatct agcatccgcg cgcggggtct gagagcagag cggcagggcg ccatggcggc 60
gtgggtggcg ctgagcagcg ggcaccggat gccggcggtg gggctgggcg tgtggcggtat 120
ggagaaggcg gacatccgcg ggctcatcca cgcagcgctc cgcgtcggct accgccacct 180
ggactgcgcc gctgactacc agaacgaagc tgaagttggt gacgcgcttg cagaggcatt 240
ccagaccgga ctctcaagc gggaggacct gttcatcaca accaagctgt ggaactcaga 300
ccatgggcat gtgcttgaag cctgcaagga cagcctgaag aagctgcagc tagactatct 360
cgacctctac ctcatccact tcccggtagc cactcggcac accggagtcg gcacgacttc 420
tagcgctttg ggtgacgatg gcgtgctgga catcgaca 458

<210> 17780

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-E7

<400> 17780

cacacacaca cagacaagtg gtttccaaag ccaagtgtgt gtactagcaa ccagctaggt 60
cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccacttct tcaaccacca 120
caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtggtcac 180
cgccaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacia 240
gcagcacctc ggcgaggcgg gcgccatcgc cgccggcgcc ttgcactct acgagaagca 300
cgaggcgaag aaggaccccg agcacgcgca caggcacaag atcacggagg aggtcgctgc 360
cgcgggcgcc gtcggcgccg gcggctacgt attccacgag caccacgaga agaagaagga 420
ccacaaggac gccgaggagg ccagcggcga gaagaagcac cac 463

<210> 17781
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-E9

 <400> 17781

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 ataataataa acaccatggt gtccggctga aagcctttgc tactctgcaa tgacntttca 120
 cgcgttcatt gactgtgttc aatccatgca agctcaagtc acctgcgcca ttgtccacca 180
 tgtccgacaa catctgccgg tgcaacgatg ctctaagtag cacgttggtc tctctctcaa 240
 tgtctccgac ctccaacacc aatatcatat gaccgggaat caaaacactt tgtgctaata 300
 gtcacaataa ttgctttcaa tatcggacag agtttgtaa caccaaacad ttgcaaagt 360
 acgacgttgc aaaaaata 378

<210> 17782
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-F1

 <400> 17782

gcgctccagc gtcgtccgcc gccgccgaag gacggaagga gaagagggtta cggccgtctc 60
 cttgcgggca tgggccacga gaagaagctg tccaaccga tgcgggagat caaggtgcag 120
 aagctcgtcc tcaatatctc cgtcaggag agcggcgacc gtctcaccog cgccgcaaag 180
 gtgctcgagc agtcagcag gcagaccccc gtcttctcca aggcgaggta cacggtgcgg 240
 tcgttcggca tccggcgtaa cgagacgacg gctgctacg tcacggtgag gggctgagaa 300
 ggccatgcaa ctgcttgaga gccgcctaaa ggtcaaggag taccagctgc tcaggaggaa 360
 cttctgcgac accgggtgct ttggttt 387

<210> 17783
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D5

<400> 17783

atggctatta ttggtctggg actggtgctt ttgcatgctt ttattggaaa catgcaagag 60
tgtgctgcaa gctcttggaa gaaggagggtt ggaaatgcaa ctcaggcgcc gtgatgttga 120
aaagtggatg agccataggc gattgcctga agatttgaga aggagggtta gacgagccga 180
aaggttcacc tgggcagcta ctcaaggagt gaatgaagag gagcttttga gtaatttacc 240
tgaagacatc caaagggaca tacgtcgcca cttctttaga ttccttaata aggtccgatt 300
attcaccttg atggattggc ctatattgga tgcaatatgt gacaaattaa gacaaaactt 360
gtatattagt ggaagtgaca ttctttacca aggtggcact gttgaaaaga tggctcttcat 420
agtgagaggg aagctggaaa gc 442

<210> 17784

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C10

<400> 17784

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tcttggttcgg ctatccctac aagtacaaga cttctccgaa caacgtggct aacacatcga 120
acttctatga cctaacgcta taattacaca gctccctggc gccctactac ctgtacggat 180
ccctgttccg caactacatc ttcgaccogt tcggctcttc gaagcccgtc gagtacctgc 240
acttcgagtt ggactccctg gaccacaacc tgtccaagaa tgatgccaga ctcatcatca 300
gcaccoggtt ctaatcctcc aaaatcaagt ccac 334

<210> 17785

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C11

<400> 17785

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ctggaccatt ggaactcatc catgggggatt ctgcacttta tgccgacgag catacaaacg 120
 cccaactaca caacatgagc tcattcatca aaccactttt gaccctgctg tcgaggacca 180
 actaccagac atattatcag tacgaaccaa ccgtcgagtc cctcactgct ctttcccata 240
 ccttcgatac gaaacggctg cagctcccaa cgggtcaatat tcacatcccc gggcctctct 300
 acatgacata cgaagaggca cagcagctca attcatctgc acattctgta ccgacatcac 360
 ccagcacaag attctacca tacaacgata acttctacat cgactaatgc tgcacatcat 418

<210> 17786

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-C12

<400> 17786

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 cagggctgcg ggcaagctgt ccagagaacc tcggagttaa cacagaaata aagagagacc 120
 tttgcaccat agcgaaccag atttttgcac ttgtgccaac agcatcaggc aattgcagcc 180
 ctctgtctc gcccatgtaa ctgggacctg ccccgatag acccgttgcc ttcttgcagg 240
 ccctgcagta cacgctgtct cggagttttg ctgctgttgg agcctgatgt tatgaagtcc 300
 gggtgaatgg tagcatacgg aggacgcaag tctgatgtgc tgacttgagc ttgtatatgc 360
 agcgtgcgat cattaattgg ctagcctnct tgtaacctgt gtatatacct gaatgaataa 420
 ttata 426

<210> 17787

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C2

<400> 17787

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 agtacagcgc tgggcaccac ctcaagttac ataagcagaa accgttaact agacacacac 120

atggacagga tagttctcat gcctacctga caccagttca actgcataca tgactctcat 180
 actcatgata tggactcgct aaagaatgac gctcctgaga aatggacact agcgaaggct 240
 catggaacaa ctctcaccct accatctgat gatcacatag gcatcagtga agttggacac 300
 attgcacttg atgctggta aatactcgcc catagtgtca agcttgtcga acaaac 356

<210> 17788

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C4

<400> 17788

aggagaataa ggataattaa aaacgaactg cccttgtaa tgcttataac aagaagaaag 60
 aatctgggaa atcgtcagtt ttactagatg tgaagccatt taacgattac actgttatgt 120
 acaagctcat acaagctggt aggagtgtat agatgg 156

<210> 17789

<211> 269

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-031-Q1-K1-C5

<400> 17789

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 acctaccgt acctgttagc tctccatgc ttcgtcgaag gctaacacct acttcccatt 120
 cttctctat gtctgccatt acctccatt gtcccttagc tctcctcctc atctctctcc 180
 tccttctgac tctggtcttc tccatacact gcctgtacgc tcaccaccgc tttctgaagc 240
 tccttcggct gaagcactat atccattcc 269

<210> 17790

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C6

<400> 17790

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aagcctcctt gctaatacggt actagtgaag gctcatggaa cagctgtggg cctaccatct 120
gatgatcaca tcgggtacag gatacaaggt tacaatgcac ttcattgctag 170

<210> 17791
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-C7
<400> 17791

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ctctttctct tctgcaataa tggcggctcg cgtactcatc ttcagacacg aaactgggtcc 120
ctgctacaac cccaacacca tcgcgggtca ctgttcttgc gcggccaaca cctactacca 180
taacaacaag gcaactgccg ccacctgaca cttcacctgc accggcgcct tcactaccag 240
atacccaagt tcttcattgt gcttcttacc ctaccggagc aagcgtccgc tggaaccata 300
accccgacca ctgcaggcac catggggagga ggaacctgaa gtacctccac aggcacacgc 360
acagccgtcg ctggcatgtc gacaggcact gacaccgga ctgcgggtac aggtttcggc 420
ggtctatgac caggcacata cgctagcatg gacactgca 459

<210> 17792
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-031-Q1-K1-C8
<400> 17792

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cagtattggc ctaatgctca ctggggagcg gtcagaatgc acttcactta caactcatgt 120
agctacctat ggacagtccc gagatgccat cgagctatga ccatgatgat gtgccaccac 180
aactggcaca aacactctat aggataatag ggctgctcaa aaacgtactg tgcttgctaa 240
tgctttctggc aagaataaag aatctgggaa atcgtcagtt ttacttgatg tgaagccatt 300
ctacgatgac actgacatgg ccaagctcga ggaagctgtt aggagtgtcc agatggaacg 360

actgctatag ggcgcatcca agcttgtccc agttggatat ggcattaaca agctgcaaat 420
catgatgacc attgtcgatg 440

<210> 17793
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C9

<400> 17793

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tgcgccaaaga acccgatccc ggccattggt gaccgacgta tgggcgctcg ctggatgccg 120
cccaccgtcc aacgccgccg cagtagcagt agcagccac cagttgcacg cgcacatgc 180
ttctgctccc gtactaggaa gacggaaggc ccataagaga gccctgccac tgcgttcaa 240
aggcgtcaac accaactgtt gccaggacca ccagcttaag gccccgacc tcctcatccg 300
tcggcgggcg gggctaccgt accgcgcgt caacctcgtg ctcacctccg tctccgtccg 360
cgctgaccgg ctctggccgt cgcttgcct 390

<210> 17794
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D1

<400> 17794

gcggaataat ctcttcttca cctcactaac accagctagc aactctttct ctctgcaat 60
aatgggcgct cgctcctcct cctcccagcc gcagctggc gcggcgccg cggtcctggc 120
agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcgccg tgagctgcgg 180
cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacggc atgggcagcg cggcgctgcc 240
ctccgcggcg tgctgcagcg gggtgcgctc gctcaacagc cgcgcgtcgt cggcgccgga 300
ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgctcag 360
catggccaac gccgtcaaca tccccggcaa gtgcgggcgtc ttcgtcggcg tgcccatcag 420
ccccaccgtc gactgcacca agatcaactg atcgatggaa c 461

<210> 17795
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D10

 <400> 17795

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 tgtgccatat cagggggccgt ggtggccgcg gtgctgctgc tggcaacggc cgcgacgacc 120
 tcggaggccg acatcacctg cgggcagctg agctccgcca tcgcgccctg cctctcctac 180
 gcccacggaa cacggtccgg cccctccggg tcctgctgta gcgacgtcac gaaccttaag 240
 agcgccgcca gcaccgccga cgacaggcgc gccagctgca actgactcaa gaacaccgcc 300
 aggcacgtca gcagcctcaa ccgccacaac gccgtcagca taccctcaa atgcagcagt 360
 agcataccct acaccatcag caccttcacc gactgctcca aggtgaacta aaacctagac 420
 cacgcgctac tacgggcggc tgat 444

<210> 17796
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D11

 <400> 17796

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 agactcccca ccatctacac catccacgga tactgctgag gatggacggg gaatgggtgg 120
 taatatgcgc cacgttccaa agaacttaat gatttatggt gcggatggaa ctgggcttgc 180
 ctctcttca aatcaaattg atgacctgga gcagtttggt gatgtgggct ctttgatga 240
 taatgttgaa tccttcttat ccaatgatga tggagatccc agggatattt ttgctgcact 300
 caaaagaagt cctgcagaac ctaaccacgc cgcttcgaaa ggttttactt tcagtgaagt 360
 caactgttgg cgcacaagca acagcaaaat tgtttgctga cacttcgttt cagatggcaa 420
 gattt 425

<210> 17797
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D12

<400> 17797

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 ggagaagagg gcggaggagg cggaggaggc cgccgcggtg gatgaggcgg cggatgatcga 120
 tggcactggg tcgttcaagg aggatagtaa cctgctgtcc gagtccccg accctgagcg 180
 cacagcgctc gcgcagctca aggagctcgt cgccaccgcg ctgcctaacy gtgagttcaa 240
 cctgccgtcg acgtcagcca aggaggaggc caagaaggag gatccggcaa aggaagaagc 300
 tccggcggac aatgaggacg agcccaaggc agaggatgcg gctgaccaag agcccgtcaa 360
 ggaggaggcc aagcctgagg agcccaaac ggaagcgccg gcagaagcag cgctcgagga 420
 ggттаатgac gagacaccg 440

<210> 17798
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D2

<400> 17798

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 caggacaaca aggcaccatg gtttgagagg aagcggctag aggacctgct gtcgggctag 120
 aagacggcag tggcgggacg cccccggacg tcaggcggac tgtcgctgcy ggcgggccaa 180
 ctgctcttcg tcgccgagta catctgggac atggactacg tgcccgtgtt cacgcatcta 240
 cacaggcttc tggtaacagg cattcttttcg tttgctgctg catgctcacc tgcaagcgta 300
 gttagtgttt ttcgaaaggg atgcgtactt g 331

<210> 17799
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D3

<400> 17799

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ctggttcaag ctcttgaag aaggagggtg gaaatgcaac tcaggcgccg tgatgttgaa 120
tagtggatga gccataggcg actgcctgaa gatttgagaa ggagggttag acgagccgaa 180
aggttcacct gggcagctac tcaaggagtg aatgaagagg agcttttgag taatttacct 240
gaagacatcc aaaggacat acgtcgccac ttcttttagat tccttaataa ggtccgatta 300
ttcaccttga tggattggcc tatattggat gcaatatgtg acaaattaag acaaaacttg 360
tatattagtg gaagtgcacat tctttaccaa ggtggcactg ttgaaaagat ggtcttcata 420
gtgagaggga aactggaaag ca 442

<210> 17800

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-D4

<400> 17800

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atggctagct ccatcagctg ataagcagat atgtctgagg caactgaaga cctggcgtaa 120
gttgtgcacc gcgcaatatc attcgacttc gtttgctcca ctaagaagat cacgaccgac 180
aactagtacg gtaatggggg tggcctgacc ataaactttt acatcaacag cctgaaaggt 240
catggacatt ggcttatacc atatcgacga caagtacggc gcgaacctcg acggatacag 300
gacactctac aacgatgatg actgatctca caccgtagac gtctacttcg gtagaaccac 360
tgaacttatg atctgggccc ttacaatcgc tgggataccta a 401

<210> 17801

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-C1

<400> 17801

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tgcctctctt tcgtaacaac agagacagtt caaacaaaac tgtgattttg gtattttatt 120
ctttatatac atttattaat caaacttcat attaaattta ttttaattta tatttttttt 180
ttatctatctt tttattttatt tatttttttat ttttttattt attttttttt tattttattaa 240
ttttaatttt ttcttctctt taactttttc tttttttatt tttttatttt tt 292

<210> 17802

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A3

<400> 17802

ctacgcgtac gcgcacttcg tgtagatcat accagagttg tagacataat gcgcaaggct 60
ggtcagttgc atcttgtgag gccatatatg gttgcagttc acagtcacaa tgtctgtgct 120
gagaatgaag ccttgaatga gctttatggt gaagaggagg actatgagag actccgtgaa 180
tcaattgaca tgcattgaca ctttgaccag atcgggtctt cccagaagct tgagaagcat 240
gaattgctgg agatgaggag gattgccggc tacatttaca agaaggctgg caggtggaag 300
caatcgatag ctctatcgca gaaagacaac atgtacaagg attgcatgga gacatgctga 360
caatctggtg accgcgaatt gtcagaggac ttgcttgtct attgcattga gcatggtaag 420
aacgaatgct tcgct 435

<210> 17803

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A4

<400> 17803

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taaattgggtc ggaaagccgc tcctgtcaag aagggtgatg ccaaggccca ggcccttgaag 120
gtggccaagg ctgtgaagtc tggggcaggc aagaagaaga ccaagaagat tcgcacatct 180
gcaacatttc accagcccaa gaccctgaag aaggccatgg acccgaagta cccaagaatc 240
agcactactg caagaaacaa gcttgatcag taccaaattc tcaagtaccc cttcaccaca 300

gaatctgcaa tgaagaagat tgacgataac aacactatgg tctttattgt tgacctcata 360
gcagactaga aactgatcta gggctgcaga tcaagacgat gtatgacatt cacgcaaaga 420
agggtcaacac cctgatcaag cctgatggga agaataaggc tatgtgaaac 470

<210> 17804

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A5

<400> 17804

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catttgcatt tgtgcagggc ctgtcgtcgt ccgttccaag cgcagacacc atgacggagt 120
gcgtttgcgat ccatgtacgc catgccggaa tccaggtcta ttacacgtgc tgtgagctgt 180
actgcattga gcatggcatt gaggctgtcg gtctgatgcc cgggcacaag acccttgttt 240
gacgtgatga tgctatgaac acctgcttca gtgagactgg tgctggcaag cacgtgccat 300
gcgctgcggtt attgacattg accccagtgt catcgattag gtgagaactg gct 353

<210> 17805

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A8

<400> 17805

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acgacctgtc gcaccgcgaa cgcagccgcc gtcgccgtc tcctgctgct gagctctttc 120
tgcgccgctc cgcaccattgc ctgcgaccct cctaattggcg ccaagttcgg gtacaccggc 180
tccgtcggtc cgcaccactg gggcgactg agccccagct tcaggcagtg cgcgacaggg 240
acgaagcagt ccccgatcga catctacacg gtccaggcgg tctccaaccc ggcgctgcag 300
ccgctccaca gggactacac cgtggccaac gccaccctcg tcgacaacgt cgtcaacgtc 360
gcgctgcgct tcgacggcga cggcggcgcc gggagcgtga gcgtcagcag gaagctgtac 420
acgctgaagc aggtgcactg gcacttcgct tgcgagcaca cc 462

<210> 17806
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-B10

 <400> 17806

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 ggagcaggggt tccatcggtg tgactgccaa tgacgatcca tataatgcta atgaaatgag 120
 cccaagcgac caaagacaaa accatgtttc agcatcgaga aagagaccta tttccctccc 180
 aagaagtga gaatcaaaaa ctgggaagag acagagagag aatggtgatg atatgattcc 240
 aacaccagag aactatatac ctgaagatgc tctagaacat gtccaagata gcaaggggaa 300
 tgatcgacta gaatcattta cagtgaagaa gttaagagtg ggtgactacg atgatgaacg 360
 aaacattggt tcttcaagca atatttttgc ggataggtac aagggcgatg atgaggaagt 420
 tgatgttgat tagtgacccc atgcc 445

<210> 17807
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-B11

 <400> 17807

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 ggtcttgggt ggcgtcctct cggcctgctt ggcctcagct gccgacactc cccacactcg 120
 ctttccctgg gctgcgcggg tgaaggagcg cgcgcctgcg tacatgccgg tggttggact 180
 cggatctgct gatgggtggg gcgccgatg gcgtcgttcg ctgtgtccgg cacgaggctc 240
 ggggttggtg agcccagcgg ctcggcgaga tctgggtggc agcgtacgag tgcggtggac 300
 ttgtcgtcgg agctcttcaa gaggaag 327

<210> 17808
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B12

<400> 17808

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tgccgaaccc ggggccgcag aacggggcgca ctccggcccg gttcggcttc gcgttgggcg 120
gcaaggccaa gcctgctccg aagaagggtgg ccaacacatc gacctcctct gaccggccgc 180
tgtggttccc cggcgccgtg gcgcccgaact acctggacgg ctgctggtc ggcgactacg 240
ggttcgaccc gttcggcttc gggaagcccg tggagtacct gcagttcgag ttggactcgc 300
tggaccagaa cctggccaag aatgaggccg gcggcatcat cggcaccggt ttcgagtcct 360
ccgaagtcaa gtccaccccg ttgcaaccct acag 394

<210> 17809

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B2

<400> 17809

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accataggat ggctctactc aacgaaagcg atctcgacta aatgctggtg cgaccaatgc 120
attatccatt aacgatcaac tgcattgatct acgacccatc tattgagccc gcgtgacaaa 180
acaccgtatg ccgctggcac ctacgctgac tctgaatgct gagcaagcat atgacctctt 240
cgacgaggac tattgatctg tgactcgata tactaccaca tcatgcagag ctgacccaac 300
taatacaact gtcctgatg gactataatg tgtgcagcgt caccgtgctg acc 353

<210> 17810

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B3

<400> 17810

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cacgcggaac gggattactg catagggcca atgtgtgaac gttgaatcct caacaattcc 120

ttcatcccca actccaaatg ttgctgaaac acatacccca tctgctgatg acgaggacta 180
 tgatcatgct cacctttttg gttaggagac ctaacattac aagaatgctt cttaacatcg 240
 tgctgcagct tccaatgctt cttacaacaa taacaatct tataagtcac cagttttact 300
 agatattaaa ccatgtgact attatactta catt 334

<210> 17811
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-031-Q1-K1-B4

 <400> 17811

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 gcagcggcgc tgctgctgct ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc 180
 ggcgaggtga cgtcgtcggg ggcgccgtgc ctcggttacg cgatgggcag cgcggcgctc 240
 cctccgcgg cgtgctgcag cgggggtgcgc tcgctcaaca gccgcgcgtc gtccgcggcg 300
 gaccggcagg ccacctgcaa ctgcctcaag agcatgacng gccggcttcg cgcggcgctc 360
 agcat 365

<210> 17812
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-B5

 <400> 17812

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 agcaattcct tcagcccaaa ctccagatgt tgctgaagca caggccccag ctgctgacga 180
 ggacgacgat gatcatgttg accttttcta tgagtagacc gaagatgaga agaaggctgc 240
 tgaagagcgt gctgcagctg ccaaggcttc tggcaagaag aaagaatctg cgaagtcac 300

agttttactt gatgtgaagc catggcacga tgagactgac atggccaagc ttgacga 357

<210> 17813
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B6

<400> 17813

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tgcaatgggg gcgtctcact cctcctgctg ccagccgcag ctggtcgcgg cggccgcagt 120
cctggcagcg gcgctgctgc tgctggcagc aaaggccgat acggcgtcag cggcggtgag 180
ctgcggcgag gtgacgtcgc ctgaggcgcc gtgcctcggg tacgcgatgg gcagcgcggc 240
gtcaccctac gcggcgtgct gc 262

<210> 17814
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B7

<400> 17814

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gtaacagcag atacggtgca tacaaagctg cggttttggg ggttgttgct gtttgattat 120
tttttttttg tgttatttat tatctatttg atggtttggt cttatgttct tttttttttg 180
tttttttttg tatttttttt ttttgttatt attatttttt attattttat ttatttttta 240
tttttttttt gttttttttt ttgttttttt ttttatttta ttatttttta tttttatttt 300
tttttctttt atttttttta ttttattatt ttttttttat tttttttttt tttttttttt 360
ttttgttttt tttttatttt tttttatttt ttatattttt tttatttttt ttttattttt 420
tatattttta tttttttttt gttttttttt tgttttattt tttatttttag ttttt 475

<210> 17815
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B8

<400> 17815

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ggcttgggca tcagctgaag ttacatgagc ggaaaccgtg agttggagag acactttacg 120
ggtggtgcta atgcacacctg aaccagtata actgtctaca tntagctcaa actacagtat 180
tggacttgct aaagattgga gctcc 205

<210> 17816

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-B9

<400> 17816

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aggcgttcag ggggggaccc tgtggtacgg gaacggcgat ccgaccacgc cgctgtggcc 120
gtcgtgcgcg gctggggacg actgcgagcg gctgagcatg gaggagctgg acggcagcga 180
ggagatgccg ggcaccccg cgctgccagt gtcggccagg gacggggaga caatcctcaa 240
ggcgatgggc ggcatgtcg cgccacccaa gtggcagggc ggcgacggcg cgcccgtgta 300
ccggctcggc cccggcccg cggtgttgaa cctcacctac attggaaacg agactttagc 360
aacaatcgaa aatgtgtttg cggatgata aagaaaagag gagcctgaca gatatgtgat 420
cataggcaac catcgtgatg cttggacatt tg 452

<210> 17817

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A2

<400> 17817

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gaagctgagg ggggtcaaaat cctactgtga aaacgcccta aaaatctacc aaaagcctat 120
tccagggact tctctggaag aaatcgccac tggtttaact gacgtatcag ccatatatga 180

gacgatgaat gagcacgagc aagcgctcaa gctacttcag aaggccttaa cactgtacaa 240
 caattctgcc ggtcagcaga gcacgattgc tggcattgag gctcagatgg gcgtgctgca 300
 ctacattatg ggcaactatg gcgaagccct acgacttcct tcaacagcgc aattgcaaag 360
 ct 362

<210> 17818
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-G12
 <400> 17818

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 aaagcattcc ggcatgttgc ttcctatgat tctgctatct cggagtgggt gtggaagcaa 120
 tctaataaag attcatttcc tcccagcttt actgtgcccc tcacaatgaa gtctacactt 180
 cgctatgggtg agaatcctca tcaaaagggt gccttttatg gtgacaggag tctttctcta 240
 gtaaattgctg gcggtattgc aacagcaatt cagcaccatg gaaaggaaat gtcctacaac 300
 aacta 305

<210> 17819
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-G2
 <400> 17819

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 acgttcctcg tggctggctt cgtttctctt tccaacaatc aagatgagcc gtggcggtag 120
 cgcgggtggt ggtcaaagtt ctctgggtta cctctttgga agcggtgagc ccccaaacc 180
 agcagtggca ccagctgtaa gtgctccacc tgctgctgca ggtgctccac ctgctgagaa 240
 accacctgct gcaaagcctg atggcaccag tcagattgct gctgggggta ccagccaaac 300
 caataactac cacagggccg acggtcagaa caccggaaac ttccttacgg accgttcttc 360
 gacca 365

<210> 17820
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-G5

 <400> 17820

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 ggaaattaga gggggaaatg aaatgaccgt gttgaaaaca gggccaaagt agctagcaat 120
 tcaaagaggc aaaatgctgc aaaatataat gcttcatgag gtcagtaaata acatatttgg 180
 taattccatg ctaatacact gatgctttaa gatgcctgag acatctatct tctttgttag 240
 ttgttttcgg tggtgtcaaa atctcacgtg ccacaatgga tgaaagaaca acatgtataa 300
 ttgggttcca aagagacttg agggctaatt catcacaacc tgtaactgaa gatcttgat 360
 aactgactac atcaccatgc aagactaatg tttatatattt attaag 406

<210> 17821
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-G6

 <400> 17821

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 attgagtcgg gggactcgct gaaccggtc atgctcgccc gtgggggtctc cttcatggtg 120
 gacaactgct ccacaacgct tcgctggga tccaggaagt ggctgcctcg cttcgactac 180
 atcctgactc atcatgcctt tgtggcgtt gacaaggact cccgatcaa ccaggacctc 240
 atcagcaact tcttgtctga cctgtccat ggtgccattg aagtctgctc ctagctgagg 300
 cccaccgtct acatctctgt gcc 323

<210> 17822
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-G7

<400> 17822

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atccagccat ggcgttcaag cggaggaatg gcggacgcaa caagcacggg cgcgccacg 120
tcaagtacat ccgctgctcc aactgcgcca agtgctgtcc caaggataag gctatcaagc 180
ggttcttggg gaggaacatt gttgagcagg ctgccgtgag agatgtgcag gaggcctgtg 240
tacatgatgg atatgttcta cccaaattgt atgcaaaggt tcatactgt gtctcatgcg 300
caatccatgc gcacattgtc cgtgtccgct ctctgagaaa caggaggaac cgtgagcccc 360
cgcagcgctt cagacgcggg gatgatggcc caaggcctgg tcagggcccc ccgngcccag 420
gcggtgc 427

<210> 17823

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-G9

<400> 17823

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acgcttcact caaccttaat atgttataat ctctaagctc taactatcca caccactcct 120
tcatttatcc attacccttc tcattcacac aaactaccac ctctacttc caaaccccca 180
c 181

<210> 17824

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H1

<400> 17824

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gtaggtcata cagcatgag cttcagacca gacgaataac ggtacgcacc actcacgtac 120
acaaatcact tgaagtacat tcgttgctct aacttctaac agcgtgaac gactgttaaa 180
gctatctagc aactatcagt gatccaacat gtgaaaagcc acattactg tatagaccac 240

acacattgcc tgtctacatg agggatagtc attacccatg atacatccaa taccacatca 300

<210> 17825

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H11

<400> 17825

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acttgacctg gatgtcaaaa gtatttagtt ttaactattg tgtgctaaac tatgtacgtg 180

gcatgaaagt taaggctgat cgtgatgagt cgtatcctta tgctgctatg cttgctgctc 240

aagatgttgc acagcgttgc aaggattttg tagtgaagcc tgcaatttcg tctgtgtatc 300

caaagatgat gtttgcttaa ttaaattgaa gcttacgatt atgtaaggct gcttacgttg 360

ctgtgggcag ataagtgact tggctctgtg t 391

<210> 17826

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H12

<400> 17826

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gaacgctgct gagatcaccg ataagcttgg tctccattcc ctgcgccaac gccactggta 180

tatccagagc acttgctgta ccacaggaga aggt 214

<210> 17827

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H2

<400> 17827

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 cctttctttt ttgaaccaga ttaaataagg atgttggaat aatcctatct ttttcctctt 180
 gggaacgcaa ccagcacacg ttcacacagga gtgtttctgt ttggcctggc tatctgtttc 240
 ggtttgata catacagata gcttaccttc ttggttcac aggagtcaa agttgcagga 300
 tctcaagcgg cgctgacgat gacgcatcat ccctggagcc tttcacggtc gagcaaggac 360
 tagtaagaag gagggccaca tgcgtcgtgg ccccgtaga actgcttcac gttctctcag 420
 g 421

<210> 17828
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H3

<400> 17828

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 tatcttccga tccaacgact tataaaattc atatctgcaa ctaaacaaca cttctacgta 180
 acatcaaacc tattagatca ctatcagaaa ccaaacctat acacattcat aaccactatc 240

<210> 17829
 <211> 151
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H4

<400> 17829

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 cttccttcgt cgggggggaa aattgggaag actccggtgc ggattaaggc cgttgtgtac 120
 tcctgtttg cctttcatca taaggatgatt c 151

<210> 17830
 <211> 335

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-H5

 <400> 17830

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 agaacaatga ggccaatggg agccagctct agaccaacat gaaggccatg atcatccaga 120
 gagcacgccg aggccaagca tccaagaca gacgtgtacc agtgcttccc ccactctgaag 180
 aagtgaaagg cctgaactta gcaaccaatg ctgatttgac cagcgggcgt tccttgtgtt 240
 gaggggtgtt attccgtgtt atcttcccg t agtcatgcg tcctgtccta tgttaaccta 300
 cataataaag tgatgtcatg tccacttcta gtgaa 335

<210> 17831
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-H7

 <400> 17831

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 cccgtcaagc gtgaaaagat caggaggaac cagctgatct accaggacaa gccgcggctc 180
 aagactgcgt tggagatgct caggaccagc atgtacatag aagacagctt gtcacagggtg 240
 acgctgccgt tcttcgtcct gcacggcgag gccgacacgg tgactgacct ggaggtgagc 300
 cgcgcgctgt actagcgttc ggccagcgcc tacaagacca tcaagctgta cccgttgatg 360
 tggcacggcc tcacagccgt tgagcccgac gagaacgtgg aggccatctt ctccgacatc 420
 gtgtcctggc 430

<210> 17832
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-H8

 <400> 17832

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 gaatctcggg cggtgacgaa aggagatggg gaagtaggga tggtaaaaat tgacaaggac 120
 agaaatgctg gtgtcagcag tgctttcggc ttagaagatg aggctgagga ggacaagcgg 180
 gaatagccat ttcttgttcc tgatgtcccc taggtcccag aaacaatcga tattttggag 240
 cagcaatatt gcaagaatac ttctttttca agttacatgt cggttgctgt aaaagtgtctg 300
 ggaattgtaa acatgcgaac tctattaaaa gaaaaaggat aaggaattct aatcc 355

<210> 17833

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-H9

<400> 17833

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 agcttatgtg cagtatgcag gtccaacctg tgattgaccc attttttctg ttgtttcttt 120
 gcccgatgat ttactgctct ggaacttaag tgtgatactg ttgtagttac actttactgc 180
 cctgactatc atgtcaaacg gctggatata tttgaaactg tccttgatga atctggacgt 240
 gtattttgtg tgtgtgtata tggtttttgc ttcttcaatg tttgtccatg gaatatagat 300
 atataaaaag ctgttgcac aataattaaa aa 332

<210> 17834

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A1

<400> 17834

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 tcggtgttca ggctggggat taaaacgagg aacatgaaga tattgcttcg tagcccgga 120
 aggaacttgg gggatttata gcaatattag tgtgacattt tccacaagac tgagaagaat 180
 gtggtaaaac agtgcagaaa ggaagatgcc aactgtgacc acacacagac agttgaacaa 240
 caacagccct ttgacgacag acagacagtt gagcatgctt ctcttcagaa aactgatcta 300

tgcaaagaga cccatgtttc aaaagcttaa acgcttaccg caaattc

347

<210> 17835

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A11

<400> 17835

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aatcaaaggg tccaaatggc acaggtgctg ctgcttactg tggttttgca accaaaatac 120

tccaaaacaa tctgttgat caaccaggac ctaaaagtaa cttgggttcc aatgcataac 180

ttaaagggtc ccatttttcc acccatatta aatt 214

<210> 17836

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A12

<400> 17836

acatctggac catggtcact gttaagggtt ctagtgtcat ttatgctaac acaggtagag 60

gcttattata taggtgagag cttggaaact atgcagagta tagtggtgct cctaatagagg 120

aggagggttct gaattattct agagttgttc ttgattgtgc aactgctgat cctgatggcc 180

gcaagagagc ctttctcatt ggaggtggca tagctaactt cactgatgtt gctaccacat 240

tcaatggcat catccgagcc ttaagggaga aggaatccaa gttgaaggct tcaagaatgc 300

acatttatgt ccgcccaggt ggtccaaatt accaatctgg actggctaaa atgcgtaagc 360

ttggtgcaga actcggcggt ccaattgagg tgta 394

<210> 17837

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-G11

<400> 17837

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gctatctcct gcgttacaac cctctccgat gttgaggggc tatgtgtttc ttttgctggg 120
agagaaggtt catctgatcc tgcagtagct gtgaagaaac ttctgcatga ggacccatat 180
acagctggag aaatagagaa aattacagga gaaggcctga catctgtctt ccagggctct 240
cagacgtcat tggaagttat aaaagcggca aagcactaca agctatttca gcgtgcgacc 300
catgtctact ctgaagcaag gagagtttat gctttcaggg atactgtctc ttcaaaactc 360
aatgaggaag gcaagcttaa gaaacttggt gatct 395

<210> 17838
<211> 153
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-E10
<400> 17838

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cattgacgta cggctatgat gcggccgacg tcgacccttg ctatggtcgt gccgtcgctc 120
gctgtagcca tcctctgcat cctagtccgg tcc 153

<210> 17839
<211> 204
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-E11
<400> 17839

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aaaagtcctt aaccgcgcga acatgggtta atgtctaacc tggatagatt acctcattac 120
tacaatatcc atcaagatga aatccacacc aaacttttcc aattatttta aaaaaggttc 180
cttccaattc ttaaaaattt accc 204

<210> 17840
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E2

<400> 17840

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gcctattgaa gaagtgcgtc agccacgggt tgatgatgaa aggcgccttg cagtttagaca 120
tgttctcttt gaggatccat atagggcaca agcaccacgc tttgcaccag ttcctgttga 180
gtctcagctt ggccattcgt tggctagtgc tcaggggtgat cacggcagat attatcaacc 240
accagcactt gcgcctgagc ctcgacacat tcctcttggt ctagagcctc gctatgttcc 300
gccagcccat gtgcctactg tgccagagct tcaacatgct ccagctgcat attatcgcac 360
ttcggtccca tctggcgact catactatcg gcctgttgat aatctggtg 409

<210> 17841

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-E3

<400> 17841

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gggagctgct ggacgggacc cgagcacgcg catcaccgtc gctcgccctg tcgagacgcc 120
gtggtaccgg aagccgttgc cgtcctgcc gccgctcaac ctcaaggagc caacccccga 180
cgcgcgccgc gccacctctg acaaggaaga gcccgagggt ctgaacgcgt tccacctcat 240
ctctttctcg gagggcttcg acctgtcccc gctcttcgac cagggccgtg gcggcgggct 300
acggaggtct agcgcggtcg gcatccgttt cgtgacgcgc gagggcgnca gcagcgtggt 360
ctcccgtctg gagtcgc 377

<210> 17842

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E4

<400> 17842

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 gcccccttgg gcgtgggcgc gcggaggcag ggggtggcgta cggcggcggc ggcaaccatg 120
 aacatcaacg cgaacggcgg catcctgtcg tacgtgaaca tggaggggta cggccgttgg 180
 gtggccactg gcgtggcgtc ggccttcttc gcgtccctgg agcgcttcta ctgcatccac 240
 ctacacaccg tcgaggacga ctgcagcgac gaggaccccg acgaggccaa ggaccgtccc 300
 ctcatcttct tccgccccga cggcctaccc gagtactact acagccgttc cacattctgc 360
 gtcttcttcg ccaagatgtg acatgcatga tctgatc 397

<210> 17843
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-E6
 <400> 17843

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 atgatgctcc gtcgcctctg caacaaccaa agaggagcac catcgctcct gtccagagcg 120
 ccatcgctg cagtgcctc gccgcctatg agcgcttctt ggaccgcccc ttccttcctc 180
 gagaataatg atcagttcgt ggagcccaaa ggagctacct atgaagacc tgagcactca 240
 tttgttgaag gttggcatct atgcaaccat tgattaggag aaagagtcga agcggatctc 300
 caggagtcc atgacttcga cgaattcgaa gactaggcta gtggcctcct agtcagatgc 360
 atgtggaagg cccattttat ttagtttacg ttccgcttga gcactttaaa ctatgtgatc 420
 tc 422

<210> 17844
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-E7
 <400> 17844

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atcaccatct tccctatcca catcgccatc tcctgcattt acctctcctt ctatcacctc 180
 ttctttataca cccaacttcc ttactctata ataaccatca cttactataa ccaacccgat 240
 ctacctatca ataccctgat cactcatttc ttgaaagtct gtcacttatt caaccatcta 300
 ttaccataaa cagtctaacc tgatctccag gtattccacg acttctacta attccaatac 360
 t 361

<210> 17845
 <211> 68
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-E8
 <400> 17845

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 atgagcat 68

<210> 17846
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-E9
 <400> 17846

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 aacttaaaaa agttggcgat cctattgagc tgcgcttcaa cgaatgcgag attagaagtt 180
 ctgctattag ccaactggta tactgcatca atagcttcag agaagctgca cagtctaccg 240
 accacaagtt tgaacacata gacatgtcag aaaagcgaaa ggtcattaat gagtggtcgg 300
 aaacagacac ttggctaata gacaaaaagc agcatcacga tgctctgtca aagca 355

<210> 17847
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-F1

<400> 17847

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ggttctcctg agtcgctgct gctactctca catcattatt ctttgatac tctactcgct 120
cagatactag aagtatgtgc caccacaaaa cacgatgatc cacaaggagc caaccacggt 180
actctcacga accaacatct aacatcaaag agccactaat gacttaaadc gtaaaccctca 240
tgtgaacctc caaattcttt gaaatttccc aactatttga gctaatacctt gtcaacagaa 300
tcagattctc taaactaaac ttgatccgtt aatgactca tcaaaatctt cacaacagaa 360
tccaaacgat tatggccc 378

<210> 17848

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F2

<400> 17848

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ggagagggttg ggtgacacag tggtccttga gggggactca tatgatgaag ctacgtcata 120
tgcaaaattg cgttgccagc aggaaggccg cacatttgta cctacttttg accatcctga 180
tgtcatcact ggacatggaa ctatcgccat ggaaattggt cggcagctgc aaggtccact 240
gcatgcaata tttgtacctg ttgaagggtgc tggattaatt gctggaattg ctgcctatgt 300
aaaacggttt cgcccagagg tgaaattaat tgaagtggaa ccctaagatg caaatgcaat 360
ggcattatcc ttgtgtcat 379

<210> 17849

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F5

<400> 17849

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taccggatgg ttctctcgga gacggacgta cagtgatatt gacatctgct tggagaagtg 120

ccgaagtgat actatcggtt gatgtgttaa gtggcaaagt ggcaagaata actccggaag 180
gctcgtgcta ttcgtggcgt gctcttgct tagatggcac caatgttctt gctgtgtcaa 240
gtagtcccat ctaccctcct ttcacatctt actgacgacg tcttgccgtg acaccatctg 300
aggggtgaagc acgtatatag acctgggatg aagttactag tccattcatg gcattcaaca 360
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<210> 17850

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F6

<400> 17850

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ttcaactatc ctcaaacctt ctctactact tctaactcct agtacctgga cttcttcttc 180
aacattcagc tgcaactagg tgacatcttc cttttctcct ttcctaaatt actctatctt 240
catctcttct tctccctcca catcttacta catcaagtta cgctctctca acatcctctc 300
atattcatct gcataccatc attccacctg caactgcctc aaaatca 347

<210> 17851

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F7

<400> 17851

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cttatctctg caaccatgag tgggtgttacg tgctgccttc gttccctgg tcagctgaat 180
tctgacctcc ggaagcttgc agtgaacctg atccccctcc cacgtctgca cttcttcatg 240
gttggaattg ctccactgac ctgcgggggc tcccagcagt accgcgctct caccgtgcca 300
gagctgacct agcagatgtg ggactccaag aacatgatgt gtgctgctga ccctcgtcat 360

ggccggtacc tcacggcatc tgctatgttc cgt

393

<210> 17852

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F8

<400> 17852

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atccgtatcc cacgtcaggc tgccggaggt cttcatcttc cctgcctaca agctccctca 120

gtccaaggcc acctcatcta ctgtctccct gcccatcttc tacctcttcc tcggccgcta 180

ctaggttctt ctctccatcc tcgattccgt caaggagatc ggcttcttcc atttggtgaa 240

ccacagcgtc tccctttatg ctattcatga catgtacact gtattccacc aattctt 297

<210> 17853

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F9

<400> 17853

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gccgcggcgg agggcgaggc cgtgctcacc ctgcacgtcg acagcttcga cgaggccgtc 180

gccaagcacc cttcatggt cgtcgagttc tacgccccct ggtgtgggca ctgcaagaaa 240

cttgctccag agtatgagaa tgcgccaag gcacttagca agcatgaccc accgattgtt 300

ctcgctaagg ttgatgctaa cgaggagaag aacaggccgc ttgctaccaa gtacgagatc 360

caagggttcc caaccatcaa gatct 385

<210> 17854

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-G1

<400> 17854

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agaagaaaaa agaggacgga cgattcgcag ctgcagcctg cacaggcgga ggcgaggagg 120
aagagagagc cccacgacg ggctcgccgg gacggccgac gggccgaggg tgaggtatag 180
tgcggggcgc tggccccgcg cgtggagtcg ggatccgtat tgctctctag cagtcggccg 240
gtggcgggcg tcggcgctcg gagggtgact gacagagaga gaatcgtcca tccatgggag 300
gatccggggc cagcgcgcat ttcttggaac cgtgcttct ctgccggaag ccgctcgccg 360
gcaaccgcga catcttcatg tacagggg 388

<210> 17855

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-G10

<400> 17855

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tatactgaac gacagcaaca cctacggcaa catcaacata ctgcctacac ttcaaagaat 120
cgtcaatcac aacataccac tt 142

<210> 17856

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-E1

<400> 17856

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tccctgcgcc agcgacactg gtacatccag agcacttggt ccacaactgg cgagggtctg 180
tatgagggcc tggactggct gtccagcaac attgcgagca aggcttgagg cctaccttga 240
atatcaactg cgaactgact aggagctccg gatgtatcat ggaaactcag gacagaatcg 300
cagttgcaat ctgtagatg tcttctaccg gcactatata tttttttttg tttgatgtgt 360

aatgatgtta ctgttcaacg cttattaccc tactat

396

<210> 17857

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-B7

<400> 17857

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ctatgcacca aatgattgtc cttcagaagc agtatgaata cattggcctt tgcctttcgt 120
tgaagtcttt gttttcagct atgaagacta attgccccaa tataaaattc tttcagacat 180
ttcagttttt tctttaacat atttgagttg ttctgagaag ggtgggcctg cagtggtgaa 240
tcagcctctc cgtattttgtg gagaaaaggc ttgtctcggt ttatcccttt ccttgacca 300
cttatatggg agcctttggc actgaatctg cccttttttt gtatttgggt ggtttagcat 360
ttccttggtta cacgttaact ntattttcta tcttgcaagt tgaaacataa aagtcaaatt 420
acttt 425

<210> 17858

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-B8

<400> 17858

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tcttacgaca ggggtcgact tcatcaagaa gagcacggag acctcatgct ccgtcaccac 120
caccaccacc caggctccac cggcatccga gaaggcatcc tctctctagc ccgtcaagga 180
ctagctgtga gcatccaagg tgtggacggc tgtggctgct taagcatggg aggaaaacct 240
ggcgctaact tgcctccaac gcctagtttt tgcg 274

<210> 17859

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-B9

<400> 17859

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attggagata tagatcgtag tggatcatgta tattggagat atagatggta gtgatacacg 180

tcgcaacctt tgtgtgacct ctttctaact gtacaattcc agtgtaacac caaggggtcca 240

accttaattt ccccatltaa cctttgtcct actaactgcc ctgccattgc ccgatatctc 300

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<210> 17860

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C1

<400> 17860

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tgaactcttt ctctcagct atgaacacta attgcccata tataaacttc tttcacacat 180

ttcacacttc tctttaacat attcctacat gttctac 217

<210> 17861

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C12

<400> 17861

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tatcgggtca ccaacttcag atgttttccc tctatggaca cggcgaaaat gttacaaccc 120

tctccctacc caacttaatc tcattacaac tcatccactc ttcacccgat ggcctaatac 180

ctaataatcc ctacccgata ccacttccca acagacactc accctgactg cctcactcga 240

cacacctgc atccactcat taagctctcc agctttcttg cttactctca tcttcacctc 300
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<210> 17862
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-C2
 <400> 17862

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 tgggaaagcc tgcaggagac atggatgggt taccCGgaga gctgtgcctc aagatcttcc 180
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<210> 17863
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-C4
 <400> 17863

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 atgcctctta acacgttcgg ctaggttatc tgctgcaact gcaaagtcaa gtctctcact 180
 atctattgcc tcaatgaaat gctctaggtt ccaagtctca atcttcaaga tcactattcc 240
 acagctttgc acttccataa tac 263

<210> 17864
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C6

<400> 17864

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tctttcgcgc aatgtcatct gctccaagtg caagggcaag ggctcgaagt ctggtgcctc 180
aatgaggtgc cctggttgcc agggctcagg catgaaagtc actattcgtc agctgggccc 240
ttccatgata cagcagatgc agcagccttg caatgagtgc aaggggactg gagagagcat 300
caatgagaag gaccgctgcc caaggtgcaa gggtgagaag gtcattcaag agaagaaggt 360
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<210> 17865

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C7

<400> 17865

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taatctcctt attactaaaa aatattctac ttataaacia taagcttagt ctataactca 180
tttatcatat aatactaacc attttcacia taatatttat aatctccatc ataacctttc 240
actctacact catattaaac atcaatttca caatcctaaa tttatacct acatttctac 300
ccatactatc cattatttcc caacttattg ctacatcctt catgttaaata atctccattt 360
ctacatgaat aatcttcata ataaaaattt caatgatctt tcatactaca acattctttt 420
aac 423

<210> 17866

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C8

<400> 17866

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gttcgctata tttaatttgc ttgctgactt aattcccata atccccgtgt acatatctat 120
caccctgtga atattctcag tttgtaatag ggacgatt 158

<210> 17867
<211> 179
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-C9
<400> 17867

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cctgatagaa acgatatggt tgagtacttc cgtgagcagc tctccggttt tgcgttcac 179

<210> 17868
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-D1
<400> 17868

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accaactggg cgctcgtgtc catgaaccac gacacgcagt cgtgcatgga cccaacgtg 180
atggaggcca aggtggtggt cagctcctgc ggccacgacg ggcccttcgt cgccaccggc 240
gtcaagaggc tccaggacat cggcatgata agcgccgtgc ccggtatgaa ggcgctcgac 300
atgaacgccg tctatgacga gatcgtgcgc ctacgcgcg aggtcgtgcc cggcatgata 360
gtcacctgga t 371

<210> 17869
<211> 221
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-D10

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tgtgcagttt gaatacttcc aaattaaatg gtcctctgag actcttcaga ggtatcggat 180
cctatattttc atgttcactg atgacttaca ggttacatct t 221

<210> 17870
<211> 307
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-D12

<400> 17870
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aacagaagg catttgacat tggccagaaa tacgtggagc atgcaaattc tattgaagat 180
ctttctccac atgtaccact atataaagtc atggaaggga atgagccatg cttcttcaag 240
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ctctcgc 307

<210> 17871
<211> 204
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-D2

<400> 17871
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ggcataaaatc gtcgggacta gttactactt tatcgatcgg atttgtctca tactgggagc 120
tatcactaat tatgctatct tgaatacgaa tcattacact caatcgatcg atgcagatga 180
agtctattaa gccattcagt tcac 204

<210> 17872
<211> 279
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-D4

<400> 17872

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ctggagccat cgggtgggcct acgctattgc cacacaactc tcagatgagg aagatggact 120

caactataac tcttgcgatg ctacacaata aaggagggtt cctgtctgca acagtccaaa 180

ttaacgagag tacgttggtta cccacaggca agccttggtg tcagtcagac atgagccatc 240

caacatctaa tgaagtgagc acttcagctc aagctacta 279

<210> 17873

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-D5

<400> 17873

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ctcactgact ggggagtgga catcggtagg aagaagaagg tgcctgttgc taagaaggat 120

gcgactgagg gacaagaggg tgaggctata gctgaggaaa caaagaagag taaccatgtg 180

cagaggaaga ttgagaagcg ccagcaggac cgtgcactcg acactcatat tgaagagcaa 240

tttggcagtg ggagattggt ggctgcatt tctgcccgtc ctgggcagtg tggccgagct 300

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aagggaagg gtgttgcac ttagagcatt ctttt 395

<210> 17874

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-D6

<400> 17874

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ctggcagcgg cgctgctgct gctggcggcg ggggccggga cggcgtcggc ggcggtgagc 180
 tgcggcgagg tgacgtcgtc ggtggcgccg tgcctcgggt acgcgatggg cagcgcggcg 240
 tcgccctccg cggcgtgctg cagcgggggtg cgctcgtca acagccgngc gtcgt 295

<210> 17875
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-B6

<400> 17875
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 ggtggcnttt ttgagcggat cgagatggct gcgtcngatg ttgagtaccg ctgcttcgtc 120
 ggcggcctct cctgggccac tgactaccac tccctccaca actccttcat cacctactgc 180
 taggtcctcg agtccaagat catcctcgat cgggagactc at 222

<210> 17876
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-D7

<400> 17876
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 ctgcgaggca acctgatcca atgtctctga ggtggcttac gccgtgggca aggacacgag 180
 aattggcccc aagtctctga acgccagtgt tggcttcggg ggctcatgct tccagaagga 240
 catcctgaac ctgggtgtaca tctgcgagtg caacggcctg cccgaggtgg ccaactactg 300
 gaagcacgtg atcaagatca acgactacca taagagccgg ttcgtgaacc gcgtcgtggc 360
 ctccatgttc a 371

<210> 17877
 <211> 315
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-030-Q1-K1-D8

<400> 17877

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cgtattatga gccatcccat catcgtcagc ttgcgggtcc tacatatcaa atctctcadc 120
catatctntc tattctatca taatgacctc ctgattgagg gtcgcattat cggattctat 180
gagtacatga acttggctct cgaagactct gatgaaatca acgtcaagaa aaacactatg 240
aaatcactgg gccggatact cctcaaaagt gacaatataa ctttgatgac taacaatatc 300
aagtgaaaat tctta 315

<210> 17878

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H7

<400> 17878

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acagggatca ttaactgtca cattctagtt caagggtccat agatgactcc cagtcctcgc 120
aaaacaagca gaacgtcaac tgatctcgcg tcgttgctgg cacaagtga ccttcttgca 180
ttgcctgcat tccaaagtct gatccgaact cttccacaga tgctaagggt gtatcgacct 240
atactgacat tattcatgca acggacctga tggaagctac cgttccgacg ttggatgact 300
tatacgtgcc aaatataaag gt 322

<210> 17879

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H8

<400> 17879

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ctccaaggct cttggtgtag cttgccactc tcaccaatca agttttcatg tctgatctcg 180
acattcagat cccaactgcc ttcgatccct tcgctgaggc caatgctggg gactctggtg 240
cggcagcagg gtcaaaggac tacgtacacg tgcgcattca gcagcgtaat ggtcgcaaga 300
gcctgaccac cgttcaagga ttgaagaaag cgttcaacta cagcaagatc ctcaaagatc 360
tcaagaaaga gttctgctgc aatggtacaa tgggtccaaga cccagaactt ggaca 415

<210> 17880

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H9

<400> 17880

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actcatacca catggccggg ctaattctcg acgacctata catagacca cctgcaaact 120
ctattgcact cgcactatac aatcaattat acattcatct caatcagata ccaactgcct 180
ttatccactc ttgagccaat ctaagactct cattagcagc atgtcataga ctacgacact 240
tcacatcaca acta 254

<210> 17881

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A1

<400> 17881

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agtgtcaggg gtagcgtcaa ggagagccaa ccaccaagt ggacagaccg atgtaatcgt 180
cttctgtagc ggcggttcg agaatccagg cactgcgaaa tcagaaggag agctgctttc 240
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accgtctggt ttgctggaga gcccttcggg cttgccgctg ggtaagcatc tcgoggagaa 360
gaagactaac ggcacgaaaa ct 382

<210> 17882
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-A10

 <400> 17882

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 ggaatctcag tgatggtagt agtgggtgtc ttcactgttt atgatttgac gctgcttctt 180
 tgtacctctg gtagagatcc tgggtataata cctcggaata ctcatcctcc tgaacctgaa 240
 tccattgatg ggatcaatga tacaggtgtt cagactccac aacaatttcg tttgcctcgc 300
 acaaaggaag ttgttgtaaa tgggatcagt gtacgggtaa aatactggga tacttgcatg 360
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<210> 17883
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-A11

 <400> 17883

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 cggcgagtac ggggtactccg agaccgacgt ggtcaccgcc accggcgagg gcgagtacga 180
 gaggtacaag anggaggaga aggagcacia gcacaagcag cacctcggcg aggccggcg 240
 catcgccgac ggcgccttcg cactctacga gaagcacgag gcgaagaatg accccgagca 300
 cgcgcacagg cacaagatca cggatgaggt cgctgccgct gcggccgctc gcgccggcg 360
 ctacgtattc cagcagcacc acgagaagaa gaa 393

<210> 17884
 <211> 339
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A12

<400> 17884

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gaagtattac aggttgagaa aagagatgga tgaaaacata tcccatcgtg atccgcttcg 120

tcaacgttca catgctcagg ctgcttacga caaggccaat acgaatgaac aatcgtcaag 180

tcgctcatca ggaggtgcat cttccataag ctttctgga cggatgcctc ctggcggttt 240

tcctagaagg attcccagtt gaggtttccc ctggggttgc atgccttgag gtttccctgg 300

tggtgttccc ggtaatgttc atatgagtaa aatgctgaa 339

<210> 17885

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A2

<400> 17885

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ggtactctcc ccaactcatct ctgctgggct tgatagctgc cctgttctag aggagatctc 180

aattaaagtg gagggtgatt gcctgacatg tgcacgccct ggcccattat tcggcctgag 240

tgatcttgca agtttcccag cgcttgccaa gatgaattcg cgatctgagt gaagccagta 300

gcctatcctc taactggaca agccgtccaa atggaccttt ttttggggaa ccaatttaat 360

ttccaggtat tggatcaact a 381

<210> 17886

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-A3

<400> 17886

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accagagttc ttgcaagttg aagcttttgc taagttcagt aatgctattg gaaaggtgat 180
agaagcccaa cctgacatgc cagttgttgg agccgtaact ctatatctat cgctattgac 240
ttttactcta cgtgtacata ctgaccggct tgattatgat gaccaagtgc tctgtgcatg 300
tgtcaagaaa ctttc 315

<210> 17887
<211> 277
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-A4
<400> 17887

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ttaaccatta ccaaaattct ttcaaattaa agctccaact aacttaaata ttcctatcct 180
aaaacctttt taattacacc atttcatcca aaaactttta atccgaacct ctatatcaac 240
ccttccaac taaaactatt cccaacaaa ctttcca 277

<210> 17888
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-030-Q1-K1-A6
<400> 17888

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atcatccctt ctaactacaa ctttccctat ctctcatcat atttataatt tcttatatta 180
cattttttttt tcacatccat ctaataaaaa ataattttta ctttattcat ctttacaata 240
accactataa tacatcacia tctctttcac tatataatta ttaacaatat tatatatcac 300
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<210> 17889

<211> 230
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-A7

 <400> 17889

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 aacanaatct ttaactaact tcantaatac tcttccaaaa ctcatataat cccaacctaa 180
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<210> 17890
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-030-Q1-K1-A8

 <400> 17890

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 aatcgggtctt ggcagaagaa attctctggc ccaagggtggg aggcgttggc caagaaaggt 120
 gccaagaaac aaagggtgtt gtgggcatcc accggtgtca agaaccagc ttatcctgac 180
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 gcggaaggtg tatacagcgc cttggagaag cttggcatcg actgggaaga ggttggaaag 360
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<210> 17891
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-030-Q1-K1-B1

 <400> 17891

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 acacaggcct ggaggaggcc ctaattatcc ccttcctccc tatggtggtg gtggctacat 180
 gggagatcca tatggtgctt atggtggcgg cggtcctgca tacaaccagc caatgatata 240
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 ccttggtctat gttctgcaac aacctggtgg aatgccgnct tcgtccncac cgcggaaggg 360
 tagtgaccga agagacagtg gcagangtgg cgaagggcac 400

<210> 17892
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-B10

<400> 17892
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 cgtaagccat ggatcgagac tgattttctg ttagtttctt ctccatgtcc accatctact 180
 tgatttgctg ctattctctt cttgacattg tcccacgact caagccctat cttgtgcttc 240
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<210> 17893
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 <223> Clone ID: LIB3062-030-Q1-K1-B11

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 acctcattct ccttcaacac cactaccacc cattctcc 158

<210> 17894
 <211> 221
 <212> DNA

<213> Zea mays
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 ttcatattca acagctcatc accattgcaa gttctcctaa actgggtccac tctctcaaaa 120
 catttacttc cgatcttaac aaatccttcc tttccactat ctaccactca ctcaccactc 180
 ttcaactccta ctaccctacc ctaaattcca atatcctact a 221

<210> 17895
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-B3
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 catgaagtat ttgttagggt taatattggg tgccgaaaag aattgttttt gcaagttact 120
 ttatacaaca ctacttgtct cacagtaatg cttctgcaat ctactaaggt ccactatact 180
 ctgaagggat gagctgatga tgtgtttcct cttcccagac aattgggtcc tttcagaaga 240
 agtacaacat tggatcattt gagctgctga gcaaaactgc gccaatcag gcactttcac 300
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 ctttttcagg aggggcaact ttcttcatac t 391

<210> 17896
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-B5
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 tcaccacgcg cgggtggtaa gtccttgaag ttgatggaga aaaagctgtt gtacaggttt 120
 ttgaaggaac ttctggaata gacaacaaat acacaacctt tcagtttaca ggctaggttt 180

tgaaaactcc tgtctcactc gatatgcttg ggctcatttt taatggttct ggaaaaccta 240
 ttgacaatgg gccccgata ttacctgaag cctacttgga tatctctgga aattctatta 300
 atcc 304

<210> 17897

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H6

<400> 17897

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 gtagaatgta cgtacaggca tcagaaacgg tcacatgcta gtgcaaggtc caaagatgac 120
 tcccagtcct tgcaaaacaa gcacaaggtc gactgagcta gcgtcgggtgc tggcacaagt 180
 gcaccttctt gcagtgcctg cggtccaaag tctgatccga actcttacac agatgctaag 240
 gttgtagcga cccagactgc cagtattcgt gcaacggacc tgatggaagc taccgtttcg 300
 atcttg 307

<210> 17898

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F7

<400> 17898

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 ggaaggccaa tagttttcaa gtggcaatgg cgcaccaggc taaccaaccc actgtccttc 120
 ataagctcgg tggccagttc cacctgcgct cgatcatctc tgaagggtga cgggtcccgta 180
 acatatgcc atctgtctca tcttatgaaa ggagatttgc cacaaggaac tacatgaccc 240
 atagcctttg gggcccttca atgtctgtta gcggtggcat caatgtccca gtgatgcaga 300
 cccgctctg tgctaagtct cctgctgaga aaggaagcaa gaacttcatt attgatttca 360
 tgatgggcgg tgtttcagct gct 383

<210> 17899

<211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-F8
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 tcccctacgc agatgaagta gacgatgtta tcttacctcc tgctgtccgc atcttcagca 180
 gcaccatctc gcaatgatgt ctggatgtct cgatctggaa gggatgaaac aattcactga 240
 acaccaaact tatcaacgcc ctgcatggca ttccaaattt tcgtctggag gggattcatc 300
 ttggctcttg ctcaattatc gcagctgcgt ttccagctct gttttgtaaa catattgatg 360
 tacgaaagct gatgtgagtg ctggttcact gaaaccgaat ttctgggatg gcatgccatt 420
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<210> 17900
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-029-Q1-K1-G1
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 cggggtacct ggctcggcgg tcggcgcaga aggagcgggt gcgcctgctc taccgcaggg 120
 cgctcaagga cacgctcaac tgggccgtcc accgtcacct cttctaccag gacgcgtcgg 180
 atcttcggga caagtctgag gccaaaccgac acgtggataa cctggacgtg gtcgataggc 240
 tcatcgacga tgcggaggct cagtacagga actttcagca ccccgatccc tacattgttc 300
 catgggcacc aagcggcact aaattcacia gaaaccnngc ttcacctcaa gggatcgaga 360
 tcatctacia ttatggcaag gaggaccaag taaacaagag tcctgcaagc ggg 413

<210> 17901
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G10

<400> 17901

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cctaattctta tcggaagtca tcatcccatg agccaaagac tgaaccttgg cggctcaatg 180
gtcagacaga caacagctag tgcttcggca gctgccccac agacaaggat cgacatgttt 240
atctccggag actctccgaa tagcgcgtcg gatttgagct tccctaaggt ccacagcgag 300
cttagctcta gcagctgcag ctttgacggc ctgctcaact tcataatcaa agtgtagaat 360
gacgatgctg acttcatcga tgacctgcga tgcgactcgt actc 404

<210> 17902

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G11

<400> 17902

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gcaattacac atgggtccgcg actaaactct atgcctgcaa aacatgatgg cattcttaga 120
ctaggctttc acgaaatatc tggtgggaat gcaacacctg tgtggtataa catggtaaaa 180
caaggtctca tcagtgacct tgttttctct ttctggttta accgacatgc tgatgaagga 240
gaagtggtg aaattgtgtt tgggtggaatg gattctagtc actacaaggg tgatcacacc 300
tatgtcccag tcaactcagaa tggatactgg cagtttaaca tgggtgatgt ccatgttgat 360
ggaaagtcca cttggggtttg tgctagtggg tgtgcaacaa taacatatte 410

<210> 17903

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G12

<400> 17903

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gctaagatat ttgctgtcct tgctggcgta caaagtttgg tagcctgctc tttgcgaaaa 120
ctacgtggaa aagatgatgg tatcaatgca ggagtggcag gctgttgacac tggccttgcg 180
ctgagctttc caggtgcacc gcaaactctg attcagagct gcctgacctt tgggactttc 240
tcgtacatca tagagacgct aaacaagcag cagcccgacac tggcgctacc actgggctaaa 300
gggattaagg atcaaaaggc tggacaaagt gttcttcctc ccttcacgct ccctcttccg 360
caggatgcga tggatggatt ttctaagttc cagaactttt tgtcgtcgaa atttca 416

<210> 17904

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-029-Q1-K1-G3

<400> 17904

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cggacgatgg ccttgcatgc atatcaagat gtggacgtct aacatacctc aatttgagtt 120
ggtgtgtacg tgttactgac actggtattg tagctattgc gcaaggttgt cgagccctcg 180
aactgttaag tttgtttgga atagttgggg tgaccgatgc atgccttgag gctttgtcaa 240
aatcttgctc gtccagcctc acaacactcg acgtaaatgg ctgcatagag gaggagccgg 300
gatgacctgc tgaagctctt cccatcactg agttgcttca aagtgcacag ctagcatgca 360
cggtggttct cgatggcttt gtattctaca tctnagaaag ggaaagga 408

<210> 17905

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-G4

<400> 17905

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cggcaactga gtccctgcac cgacccaaac cctatcgcgc acccaacttc cttccccctt 120
cccggcgctgc ggtccggcgc tggag 145

<210> 17906
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-G5

 <400> 17906

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 gctacggcca ctactgacc ggtcctgggt gagctcctgc tcttctctta cccgacctcg 120
 cccatcgaca ctgtgctctg gaccctggac ctagaccttt tccaccacgt cccgcaagac 180
 ctccgcgaca agttctacgc ctac 204

<210> 17907
 <211> 164
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-G6

 <400> 17907

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 attgggtgta ggacctgggtg acctgatcac ttcgaggatg gagagtgggt cagcggtggg 120
 tcttgctgca tgaaattgcc ctacaacaag ggagagttca tata 164

<210> 17908
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-G8

 <400> 17908

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 ttgcttttgg tactccagaa aagcaaatct tgattgaacc tatatttgcc caatggatac 180
 aatctgctca tggtaagact acatatgggt tcgatatact cttatcttca acgaatggcc 240
 ccgctttcaa tgcaggtcga aacatatggt tgcccggatg gttgaatgct gttaatgaga 300

atagtaattc gcttttctta acaataggac ctggggattt cttggttcat catgctattg 360
 ctctagggtt gcatacaact acattgattt tagtaaaggg tgcttttagat gcacgcggtt 420
 tcaaattaat gccgataaa aag 443

<210> 17909
 <211> 101
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-G9
 <400> 17909

atacgcgccc tgtatccggc cactaagcgc tgtaacattg gtgaacacgg gctgattaac 60
 cgccacactt tccatctccc gatcaaccga cattctcgct a 101

<210> 17910
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-H1
 <400> 17910

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 atcataagaa cttaaggagt ggcaataata ataatccgga aactggcatg atgcaacaac 120
 gttcatatgg tgaacaaaca gtacatctct tattcaaatc tcgtctttta tgcaaatccc 180
 aaaaatgaac agcgacgctg gacgaagcag actgcaataa ggaggaagaa acggccgtac 240
 ggtcggcatg cactggtata tcatgatcaa gccgtgagct ccatgat 287

<210> 17911
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-H11
 <400> 17911

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 ttcggcgggc gcgtgggagg gtccgacggc cgcggagctg aagacagcgg tggcggaggt 120

gattccccggc ggcgtgcgag tgaaggggtg ggtcatccag tcccacaaag gccctatcct 180
 caacgccgcc tctctgcaac gctttgaaga tgaacttcaa acatcacatt tacctgagat 240
 ggtttttggga gagagtttct tgtcacttca acatacacia actggcatca aatctcattt 300
 taatgcgctt gatgcactca aggcattgaa gaaagaggca ctgccacctg ttgaggttcc 360
 tgctgcatca aaatggaagt tcataagtaa gccctttgac cagggttatac ttgac 415

<210> 17912

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H12

<400> 17912

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 cctcaagtcc ggcggcaggt tcgtcggcga ccccggggac gagaagatcg agaagatg 118

<210> 17913

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H2

<400> 17913

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 ttaagcataa gaacttaagg agtggcaata ataataatcc ggaaactggc atgatgcaac 120
 aacgttcata tggatgaaca acagtacatc tcttattcaa atctcgtctt ttatgcaaat 180
 cccaaaaatg aacagcgact ctggacgaag cagactgcaa taaggaggaa gaaactgccg 240
 tacggtcggc atgcactggg atatcatgat caggccgtga gctccatta 289

<210> 17914

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H3

<400> 17914

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 aggcacgag cttaactacc aggggctaga ggtatccgag cacggccttg actgcatagc 120
 catgatctgg tgatacaaca cgtcctagcc cattcctaac atgatcaaga tgataaacca 180
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 cgggctccat gca 253

<210> 17915
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-H4

<400> 17915

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 gtgcatacat aagtgttccc gaataccggt acgcttgtgg aggtggactc caatcactta 180
 acgcttggtt tgctccagag ggtacagtgt caccattgca ccatgatccg gattacaaca 240
 tactagctca tggtttgggc aggaagtgt ttagactcta tcttgctttc atagctgagg 300
 ac 302

<210> 17916
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-029-Q1-K1-H5

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 ccaagtgcgc cgtcacctgc aagaactgag tccccgtgtc cacggacaag ggggccatca 180
 agtacagggt cgcgacttc cttcccga aaactgctg caagatccac tagagactca 240
 tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt ccatgttcct 300
 ncgtccgtcc gncttgctac aagcaggcag ccacaccaat aagctagctc tggggtgtgn 360

tttgtatggt tgattgggtg tcccttccca gtcgagatgg aataaaataa atcatcatgc 420
gccaattagc 430

<210> 17917
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-029-Q1-K1-F6

<400> 17917

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ctggcaggcg atgtcgccgg cagcggaag gccgtcatcg acatcgtcga gctctgctac 180
aagaccggcg cgtggaagac gctaaacgac cagatcgttc tcctctccaa gaggagaggc 240
cagcttaagc aggccattac tgctatgggt cagaaagcaa tggactacat tgatttgaca 300
ccagacattg acacacgagt cgagctaatac aaaacactga gcagcgtctc tgctggcaaa 360
atztatgttg agatagagag agcaaggatg atcaaaaagc ttgcanatat caaagaggag 420
catggaaaga ttga 434

<210> 17918
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D7

<400> 17918

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ggacccttcg ccggccacta gcaccaccag ctcaaagatg gcgagcatac cgtctctcga 180
cagcatgaat gcgttcccac atgcggaaga ccacttcgtg aagaagactt actctttcgc 240
tgttgt 246

<210> 17919

<211> 196
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-D8

 <400> 17919

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 ggatctgacc aagccagctc ttgctaggct aagctcgggt taccgcagcc ttcagggtgc 120
 caagtccggt gtcaataaga agaacaggca gtcctaagcg ctaagtctgt gatctgtcag 180
 gtggcatggt ggtgct 196

<210> 17920
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-D9

 <400> 17920

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 gacaggatcg taaaggatta cacagacttc gctaagggtg gctttgagaa cttcgggtgac 180
 aagggtgaaga attggttgac ctttaactag ccacatacat ttacaacctt ttcgtaacgga 240
 acgggagttt ttgcccttgg actgttctca ccatgagaaa aatgtgctca acctattgct 300
 aactcactca ccgaaccata cattgctggc cacaacatcc ttcgagccca ctctatgact 360
 gttgacctct acaacaagaa ttacaagggt tcagactgcc gcattggg 408

<210> 17921
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E1

 <400> 17921

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 aatggctggg ggagaatatt gacaagaaca agactaggat attttttgca ggatcgtcac 120

caacacattc ctgggctagc aactgggggtg gagaagacaa gaacaagtgc cttaacgaaa 180
cagagccgat ctacaaaacc ggatacaaag ctgcaactac agactacagc ttgatggcca 240
aagctaagca ctactttcga acattggagc cgaaaggcat acatgttcaa atactgaaca 300
tcaccgagct gtctgactac cgcaaggacg ggcatcctac ggtgtacagg aaacagtttg 360
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gccttccccg agtttctgat gtctggaa 448

<210> 17922
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E10

<400> 17922
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agtcacgtga acatcgggat gcccatgaat cacggtgcca actagatcgc tcagatgcag 120
actaaactgt ctcagcaaaa aatgcctgac aatcttcttc atttgcaggc tataaattca 180
catcgtcctg atcgggctct aca 203

<210> 17923
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E12

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gttttggaat gccacagagg ctccgctttc tgcgggatga ctgacgccga tgtacacaag 120
catatccagc acatggtgaa gttcattcct cagtatgtca aggacatggt gcattatata 180
gaag 184

<210> 17924
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E2

<400> 17924

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cggagactgt tgacaacaat cttgaggctg ctaatgcaaa gttgaacttt gatgataatg 120
ctgcatttat acagaaagat atattttcac ttggtgatac aactcagat taccctagtg 180
aggccgctgc tgtcaaagca aatttgact atat 214

<210> 17925

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E3

<400> 17925

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cttttcagta tcaaggccct tgactgcccc acaagtcctt gcagcaaaac aaagtgcacc 180
agtcacttca acagctcaga atgcaccttt tctttctcgt tcaatgagtg ctgttgggcg 240
gttggggaat gaaccatctg ccaatgctcc tagtttcgtt ccccgttcac gaacatctg 300
caatgccatg atggagaaaa gttctggtgg tggaagcttg ttcacaacgt agcaaggttc 360
atcggatcaa gcagtttcac catgggaatc gatgtttaca 400

<210> 17926

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-E4

<400> 17926

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ctagtatgca tatctgaata ttagaagcaa gcttacttaa atatcttttc cactaccgac 120
acctacacat tcttaaagta cttgactgcc tgacatagtc catgcaccag ttctttatgc 180
acacatcac 189

<210> 17927
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E5

 <400> 17927

 ggacaagaac gatactagga agaagaagaa gaaggcgccg tgggaagaag aagacaggga 60
 cgaaggcagc aaggtgactc tttcagggct cctcaacttc atcgacgggc tgtggtcggc 120
 ttgcggcggc gagcgcatca tcgtgttcac caccaaccac atggacaagc tggaccggc 180
 gctgatccgg cggggcagga tggacatgca catcgagatg tctactgct gcttccaagg 240
 cttcaagggtg ctgcgaaga actacctggg cgtgcaagat catgacggcg agctgttcgg 300
 ggacattcgt cggctgctgg aagaagtgga ca 332

<210> 17928
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E6

 <400> 17928

 aatcaagatc gatactatgc agattacatt tatggcgccct aagactgaaa acgtcgagta 60
 ggtactcagc aacgtgagca ttgcatacc 89

<210> 17929
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-E7

 <400> 17929

 acctgtttca atactgccac ccataattag aagttaacta cctcctcatg ttcttgtggg 60
 atcggaacct taatatcaga atcatgcttt cctaactagc actgcaacta ccgaggcctt 120
 tttattatca aagaccatca ctgcctccac acataaccac aggataacaa acagcaccat 180
 tcactttaac aactcaaaat gcaccactta ttt 213

<210> 17930
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F1

<400> 17930

gcgaccacca ccagcacgcc atcgccctacg aagacaagga cggcgacctc atgctcgccg 60
 gagacgtgcc ctgggatatg ttcatctctt cgtgcaagaa gctcaggata atgaagggct 120
 ctgcctctga ggccagggtga tgcgtgatcc atacataaac agaggctaca gacacgccac 180
 ctgggaacgc ggatccaaga gcacacacgg atcgtacttg acgaggaaag agggaggagc 240
 agtgtggctt gagctctcca gtgtgtgaca aagacatgtt tctttctgaa cccaaaaggg 300
 agaaagatgt atgaagcgtg tatataagat cttagctagc agtttggttt catttgtatg 360
 agcgatcgaa ggctgt 376

<210> 17931
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F10

<400> 17931

caactcgaga aaccagccct actttcatca ttgggaagtt tgacggaatt ggtgctctgg 60
 gatttcctga aatttctgga gtaggagccc ctccaatttg gcagagcatg aaacagcaca 120
 tactggtctc aatggaagtg cactctatgg gactcaatag agaccggaa tcaatgacgc 180
 aatacatgcy tcaaagcgat tttgtgatgg cagtgccctt cggatgatcc acggatgcct 240
 tcgaacattc gtgaaggatc atgttgatgt tgcaagcacg agccatgaag ctaaatcaaa 300
 atcatgattt tttgcaaata ctcatacaac aaaatggtgg ctgaagtaaa gaagtacgga 360
 gagaaccttg ctgtcttgag ttcaagcgaa taccttctgt c 401

<210> 17932
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F11

<400> 17932

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tggtcgtcgc atactgcctt caatacatgc accatgagct cagtccacct atggcgatcc 120
acgacgtgcg gtctgacaca accttcattt cagatgatta tgctgccaaag attgcagatg 180
ttggtgtatg gaacgagctt gctgccaaag cgaaggctgg acaggaggac tgctgcagcc 240
gtgctgaatc tcctccggat ctccaagca acgcctactg ctccggcgcg ctcatgatcg 300
ataccatatc cggttggggt cctgaccctg atgatcacia acccatatgc agctgggctt 360
ctgagcatct gaaagactag gactacggca agctcgtgga cg 402

<210> 17933

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F12

<400> 17933

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gtgactccgg caagctcggc cgtcgaatcc tgcgtcatca ttctcgaaa cttaaggcta 120
ctagaagagc tagaacgtag atagaacggc attcggatat gggacgacat tgctatggaa 180
taggagacgc acatcacata tacatgcaac caaggctctga cagcacatat atgccacttt 240
atgcagtgca aacattacgt aagctcgaac gttacctgct gcagaagata tcattgaatg 300
gctagcgacc aatactgtgg atttctttaa ccaagttaat atgctgcatt gcacactcac 360
ataatattgc acacctg 377

<210> 17934

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F2

<400> 17934

taactgcatc aacttctctc catctcctac ttcaacttgc tcgacatcca tattctctcc 60

gggaacgttc actacaatat gttgatctct tcatgcaaaa atctcatgat aataaaaggc 120
 tctacctcta aggccagata atctctgata catacataaa catatgctac acacactcca 180
 cctgtcaact ctcatccaag atcacacact gatcgacttt gacgaagaaa gaggtaggat 240
 cagtgtggct tgagctctcc aatgttgtag aaagacatgt ttctttctga acccaaatg 300
 gagaaacatg tatgaagcgt gtatataaga tcttatctag cattttgttt tcatttgtat 360
 gagcgatcga aggctgt 377

<210> 17935
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F3

<400> 17935

gcgcagagaa tccccagca acaaacagg gttgaggagg aggagaggac aggagaggag 60
 aggttgggtc tgctacggca tggcgtccga tgaagctgta cgggtgcggtg atgtcatgta 120
 acgtgactag gtgcgcaacg gcgctggacg aggtgtgtct cgactactac atcgtgccca 180
 tcaacttcgt caccgcctag cacatgagcc ccgagcacct agtccgctac ccgtttggct 240
 aggtatcagc tctgcaagat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
 tctctgctcg caaatcaag ccatagctgt tgaaggaagg taacctcgat gaggcagcaa 360
 tgggtggatgt ttggatcgaa gtcgaagcta accagtacaa ccgtgcac 408

<210> 17936
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F4

<400> 17936

acggctactc ctteectctc ccccttctc cccctacgtc ttcttcccc aggggcatcc 60
 ggggttggtc tttttgctcc cccacgttga accttgatcc tcgtgctccc tttcttgatt 120
 ctttctccgt aagatctctt gctaggagta gcctgtcccg tgtgcgcgct cgcacggaca 180
 tgcttgtttc cgcgtcttga aaggcgagaa aaagtggaga tgggcgcttg cgcttcggta 240

cacaaggacc cgggtgctccc caagaagcaa tttcttgact cttccaccaa ggcgaatgcc 300
 gtcaacggga atggtggcgg aggcaaccgt gttgctccag ttggtgatgg cttcgggtgat 360
 ctcaagtaca aagtcgacgc ttaagcttat 390

<210> 17937
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F5

<400> 17937

gccaaagacc ccagggcagc aggaagcaat agaagcgagc gaggcagcgg cgtggggcga 60
 ggagtggagg acaccgatcc ccgccggaga gcgcgtccat cccaaatggc gactgcagct 120
 tcgcccgcgc ctgcctttcc ccacatcctc tccctctact cctaattccc tcccaatccc 180
 ccccccccc ctctctctct tcctcgccag ctggttcggt ccgcaccgt cgtcgcattg 240
 ggtgccgagg agggacgcaa tggagcagta cgagaagggtg gagaagatcg gggagggcac 300
 gtacgggggtg gtgtacaagg cgctggacaa ggccaccaac gagacgatc 349

<210> 17938
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D6

<400> 17938

cagctgtatt gcatcaccac gagcgtgggc tctctccttt ctgcacgacg actggggcac 60
 cgtcgtgcc gcgtgcggcc tgccgccctg cgccaggtgc caagcagcca ggtgttcttg 120
 gggcccttcg ccggcgacga gcaccaccag ctgaaagatg gcgaggatac cgtctctgaa 180
 gagcctcaat gcgtttccac atgcggaaga gcacttggtg aagaagactt actctggcgc 240
 tgttggtgaca atttttgggc tacttataat gattacactg tttgtgcatg agctgcagtt 300
 ttatcttacc acctacacgg tgcacagat gtctgtagat ctgaaacgag gagaaactct 360
 gccaatccat atcaatatgt catttccttc tttgccatgt gaagtattga gtgtggatgc 420
 aattgacatg tctgggaaac at 442

<210> 17939
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B9

<400> 17939

tcggtcacaa gcccaaccata gtctcgtttc tagccaagct aatcaagtta ggggtagaga 60
ctcattccag ggctgggttg ctctactaa tgcagctgac tacacatcag gctacattcc 120
tagttcggag cactcatcca tgtccattgc cggcactctc ctacacattc tcagactact 180
ctctcgatag 190

<210> 17940
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C1

<400> 17940

gcacatgata attataggag taaattgaat acttgctgtt tggactgtgt tcagtttttag 60
tgtgcaggta gtttagtgaa gtaaaccatg ttttctgtag aaatgttata taggaaagtt 120
gtagatcact tctttatctt gcttgtgtat aaatttcatg accacagggt tagtagttta 180
ggagttatga tttttccaag tacagtatac gaatctatcc agattctgta cagatttcga 240
aaactgtctt gtttgattaa gttaaactta gaatcagttc ttagtaatta taaagaagtt 300
gtagtacttt tcttaagctt tccaaaaaat ttggatcacc ctttttgggg atctataaat 360
taagttagtg cttgttgagt taggatct 388

<210> 17941
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C10

<400> 17941

taggaactca tcaattacct aataaatttt gcaacttctg aatgagtaat acggcttagt 60

cataatacta catgccagaa tattatgcat tatactctca caaactttgc ctgttctaaa 120
 gcggcttctg aggtcatctt acaaacccca gttagctaca acaagcatat caccactcct 180
 agccacacag ctaacatgat caacctttca accaaaatta ttagccaaga tcatctaatt 240
 catgtgatgc ctacaatagc aaactcatat gcttctatta ctgcctacaa attccacttc 300
 ctttgatcat atatcagtga tgatgacatc ttcagctcat atctaa 346

<210> 17942
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C11

<400> 17942

gcacaccaag gagagtacgt ggaggagcag ccatggcttc atcgggtggcc gccgcgggga 60
 gcacattcct gggcaccgc ctggcggacc cggcgccaca taacggtcgc atcgtggccc 120
 ggttcgggtt cgggttgtgc ggcaaggcga agcctgctcc gaagaagggtg gcgaagacat 180
 cgacctctc tgaccggccg ctgtggttcc cctgcgccgt ggctcccgac tacctggacg 240
 gctcgctggt cggctactac gggttcgacc cgatcgggtc cggttagccc gtggagtacc 300
 tgcagtacga gttggac 317

<210> 17943
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C12

<400> 17943

taacaaccaa tgacagcaca tcaagtacta gaaataactt tataaaaaat ctggctaggg 60
 agcataatcc aagactcacg aactaaaaaa aaagccgcaa tattactgcc tcatcttttt 120
 ccagatcgat gtcaccttca gcagcaaatc agatcaatgc atgaaaagaa tgtcagctaa 180
 tacatatgac atactctaac aggccatta 209

<210> 17944
 <211> 170
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C2

<400> 17944

attcccatc gccgacgcct ccctcacacg atacttataa taatacattc aattcttact 60
tccactactg tcttcagtta tatagtgcc gtaccttaat tcagtgaacc atagttttca 120
acctacatat tacatcgga atgtgacat cactcccaaa tcttccttat 170

<210> 17945

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C4

<400> 17945

agatcttctt catcgctgg tcaccggcgg cgtcgaggat acgggccaag atcctgtact 60
cgacttcgaa tcagggcctg cgggcggtgc tgtactgggt ccactacgag gtgcaggcca 120
cctacccta cgagatgggc ttcgacgtca tcagaggccg ttcgcaatga gcgtgatctg 180
cgtatgtgtg atgagctgag cctcccgatg atgcctgtcg gtctgacgag gcttctcgtg 240
tgttcgcttt acccccagtt ttaccaccg gttattccta gagatgggtgc agtgcaacgt 300
cttcgtgtgc tgatgcttat gggtggagtt accgggtag aatgcttatt gaggggcagc 360
cgattaattg aacgtacagc ttcgacgt acaattccac tgattcttga attatattta 420
attgatgaaa tagatgcat t 441

<210> 17946

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C5

<400> 17946

aaagaaaaga gtcccaagt tgaacccgct gaagcagcac aaaatccttc tgatcgagct 60
gccacttgcg ttctgcata ccaagaagtt ggtgggtgcta gtgcctcgca aagtgccatt 120
gaggcccaga aagctactgc tgcggcatct cagctcactc gcagtgggtc atcaagggca 180

atggaaaatg cacaggacgg ctgggagagg aagtaacgag atagagttcg tttttttttt 240
atcgtctatg cctacatctt atggatgcat atgatcctgc ctgacgat. 288

<210> 17947
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C6

<400> 17947

agacagcgta tgattgctcc attccgttag caccactagt tgctgatggt atatgttgcc 60
ggcaagttaa tagcttgatg aatatcttcc aagctgcata tggcagtgga aatgggtacc 120
tagttctcaa tcaggcttca gcaaatgctt gtttctctga cattatgaac atccttgcaa 180
gcaaaggggc aaacaccaac atccctgagt tatgtactct gaggccatca aatcttactg 240
atgtttcttg tactgtgaag gatattagct cttttgagaa aatagtcaac atcagtaaac 300
tccaagatgc atgcagcaat gttgaccac tgaaag 336

<210> 17948
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C7

<400> 17948

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cgcaatatca taacttgata catgcattcc aatctgcata ttacagctgt aaatgttact 120
ctacgctatg aatcatatcg tcaacataat gcttgaaaac tctcacatta tgaacatcct 180
tgcattgcaa ggatcaaaca ccatcattcc ttaattatat actctttaac catcaaa 237

<210> 17949
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-029-Q1-K1-C9

<400> 17949

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 atagtactgg atgccaggat attgtgcatt atatgcgac aaactttgcc tgttcgaaag 120
 cggtttcttg ggtcatcttg caggccccag taagtgacag ggagtataga gcaactgtct 180
 cggaacacag tgaatgata gacctggcag ccaaactgat tagcgagggt cgtggaatgg 240
 atttgatgcc tagaaaagca aactcagatg ctctattac tgctacagg taccactccc 300
 tttgttcata tatgggtgat gatgacatgt tcagttcaga tctaagtga gatcagctga 360
 ngcagagact tggcatatg tcaatcacac 390

<210> 17950

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D1

<400> 17950

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 cgaagccaga gctgactgcg caggttcagg caatggagaa ggatcttggt gctatggctc 120
 aggaggcgga gaagctgagg gctgatatcg cgaagagaaa cacacctact agtttcagca 180
 gccgtggaac gtatggagcc tcgttgctga ctctgggat gggtttgcaa ggcatgtatg 240
 atggcgggcg ctattctatg gctgggagcc gctacggcag tggcactggg gcttggagct 300
 cgcacgatcc ccatggctac ccgcatcttt aact 334

<210> 17951

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D10

<400> 17951

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 gcttgctgtg gtggctgagt caaaggaggt tgctggggat atgatcactg aaactgtgct 120
 tgatcacgtt cttggtgaga agacgttcga gaaatttgga aagtggttca tctcgcttca 180
 tttttcggac cagttggcag gatcctacaa gaaggtcctt acattcaagt ttgtattgcc 240

agatgcaagc aacatgtcag agatgacaag attggtttct cttgtgccat actacattga 300
 tttggcaggg cggtataagc tcaagtctca tgctcgctct aaaactgatg gagctagaac 360
 gaaggctgct catgaagcta ttagggaact acag 394

<210> 17952
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D12
 <400> 17952

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 actcgttctt tcagctaact aactgcacg caatggccac cacggcgacc gaggcggcgc 120
 cgtctcatga gcagcaggcc aaccgcaacg gcgagcagaa gacgcggcac tccgaggtcg 180
 gccacaagag catgctcaag agcgacgacc tgtaccagta catcctggac actagcgttt 240
 accctgctca gccctaaagc atgaaggagc ttcgcgaggg caccgccaag caccatggg 300
 acctgatcac taccttcgac gacgagcttc aggccctgaa catgctcatc aagctcatcg 360
 acgccaata 369

<210> 17953
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-029-Q1-K1-D3
 <400> 17953

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 ggcgaggatcg gatcgaaggc cctcgccgtt gccgccgttc tggcggccgt ctccctctcg 120
 gtggccgccc cgcccgaggc gccggcgccc agccccgtct ccgcgcgcgt cgcggcgctcg 180
 tcgcccttcg ccgcggccct cgtcgcctcc gccgccgect tcctcttcgc cgccgtccgc 240
 cactgagccg atggggcctc gtgcctgcag gctacctagc agtactttcg acgctgctgc 300
 cgccgcgggc tagatctatt tattggagtg ctatccagta gtactagtag tagtgagatt 360
 tcttcggtgc tgcgtgtcg tcgtgcatt ttggtcggat ctggttttct tggtgcaagg 420

agggttttcta t

431

<210> 17954
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D4

<400> 17954

caaagaagtt gagctttaag aggaacgtgg tgtcattgtc atcagagctc aagggtgtga 60
ggagcaagct tgcttcctag gagcagctgt ttgtaaggga atctcaaact ggaaagcttg 120
cggagacaaa aacaaggagc atggaagagg aagtaatcaa gctgcataaa tgcttacagg 180
acaaggatga acaactgcat tcattcacaa gtagcacgga acaggaaccc aactgaacct 240
tcaacttgct tggtctggga gatctgtgag caagcgagtg ctctcataa tgggtattcg 300
acatgagccc catccctgcc acagacttgg gaaaggcaca atgattttta tgggtgacatg 360
aatacattcc tcttcaaatt atatctttaa gcatccattt ttgcacctac tgggtgcaaac 420
aagaatttgc aatgggtagg ttactg 446

<210> 17955
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B8

<400> 17955

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tggtcccga cggcgtcaag ttcggcgagg ccgtgtggtt caaggccggg tcgcagatct 120
tcagcgaggg tgggctggac tacctcggca acccgagcct gatccacgag cagagcatcc 180
tcgccatctg ggctgcccag gtcgtgctca tgggcgccc ctaggggtac cgcgtcgccg 240
ggggcccgct cggagaggtc gtcgaccgcg tctaccccg cggcagcttc gaccgctcg 300
gcctcgccga cgacctgaa gccttcgcgg agctcaaggt gaaagagctc aagaacggcc 360
gtctcgccat gttctccatg ttcgggttct tcgtccaagc catcgtcacc ggcaagggcc 420
cgctcgag 428

<210> 17956
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-D5

<400> 17956

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ctttttggagc acccattcgt taacagacca ctgcgggctt catttgaatc ttcattctccc 120
ccagccatct gattgtacta ttgatatagt ggggtgtttc tcgttgtgag accaatgctc 180
aagtcacgtg ttggctttca gagcagaagc aggacaggat tcaagaacga ggtacagtcc 240
ttgcattgat gcaagcagcg acaagggtct tccgcttcgg tggaggaaac tacgtcacgc 300
ggtgcggcgg ggcaatcttc ccgtgagagg gtttctgtag aaagagctgc acgacttact 360
gatccatggg gc 372

<210> 17957
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A1

<400> 17957

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atggccacag taaattgaac aaaggacctg gagaagatag tatcaagcga caattacaag 120
ctgttgctta acgggtagcc gcatcagttc tttatccacc ctttcctgaa aaaacagtcc 180
tagttctctt gggatcacat ctattcatat 210

<210> 17958
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A11

<400> 17958

gtgaacggcg tcggcgggcg caggttcctc gtgcagtggg tgtggaaccc cgtgctgggc 60

tactgctccg gcccacacgc gctcgaccag tagctgtttg gtttcgggtt cgtttcatct 120
cctactagga tggaaatggaa tgggatttta ctacgtacca gtgaatcgaa tcctctagcg 180
catttgatt ttctctcct ctccccggg aaatccatgg gatgcttctg tatagagttg 240
ttattatcaa tgaattaatg ccactttcgg tg 272

<210> 17959
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A12

<400> 17959

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tcctccttcg cgggctccc gctcccggcc gccacgcgga ccacaccggc gtccctcgtg 120
gtggccaccg gcccgcgcg cgccggcgcg gggcccatct gcgctccat gtccatgtcc 180
tcctccaacc cgccctacga cctgacgtcc ttccggttca gcccacatcaa ggagtcac 240
gtgtcccgcg agatgaccgc tcgctacatg acggacatga tcacctacgc cgacaccgac 300
gtcgtcatcg tgggcgcgg ctccgcgggg ctgtcctgcg cgtacgagct ctccaaggac 360
cccgccgtga gcatcgccat cgtggagcag tcggtgt 397

<210> 17960
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A2

<400> 17960

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gggggacgac agaggcataa acccactaga tgtagcatc atggctccag attatgtcac 120
tttagctgaa gattccatcc atgttgaagc aaatgggtcac aatgagacac aagtgaag 180
ttctgtcaat gatgatgcaa atagcacgac aatagtcac aaagttgcag aaaaatcctg 240
caacatcagc attcacagt caatcacaag ggagacggct ggcagtggca gaggcataaa 300
gatgccactt acgccaacat acacgtact gccagtcttc cttcttctcg ttgcggtggc 360

agtgtgcatc gtgggtccgga agtggcgcaa ccaggacggc gaccctgcgt a 411

<210> 17961

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A3

<400> 17961

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aagcattaga tctaccatc attactccac attaccacac tttaactcaa tatttcatcc 120

acttttaagc ccatgatcac aatgagacac aatttataac ctctgacaat aatgatgcat 180

ataacacgac catattcatc caaaattcat aaaaaccctt caacattatc actcaca 237

<210> 17962

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A4

<400> 17962

ctctaacca atcattactt accaagttct gtctatttca tatctagggc tacccttcaa 60

atacattcct attcatcatc aaattccaat tcataactcc attcatcgtc tatctcatct 120

tctacactat ctcaatcaaa acacttttga tcaccataaa actattttaa taccttataa 180

acttcaaaat gaacctttac ttacctacca aactattcat tattattctc atatcgctaa 240

taaaatctac atgttaaata tttcaaaact tcaaactcaa gaacttatta cacttcataa 300

agctcatctt ataactttat acaaccata cataatatca 340

<210> 17963

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A5

<400> 17963

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atgcacacag ttaaattgaa caaaggacct ggagaagata gtatcaagcg acaattacaa 120
gctgttgctg aaggggtagc cgcacagctt cttcagccac cctttcctga aaaaacagtg 180
gtgttctctg gggatcacat cgattcgcat ggagcagaag ttgatgtcaa gttccaagat 240
gaaaggaaca atcagtcaga caaaataagt caaggggttc aagtttttaa tgacaacgat 300
taccttcaga ttattaagaa 320

<210> 17964

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A6

<400> 17964

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tggcctattg ttttcgagtt atgtcctcca aatacagctc tatttatctg caaagtcgga 120
ttgataactt cattgatggg ctatctgctc tgctggacga gctcagtga gagacttttg 180
agcaccatag aagtgggtta atagctgata aactggaaaa ggaaccttca cttagctacc 240
aaactagtga ttattgggtc cagatcgctg ataaaaagta catgtttgat atgtcaaaac 300
tggaagctga agagcttaag acagttcaaa aagctgatgt tatagcttgg tacaacacat 360
acataagatc atcggtccca aagc 384

<210> 17965

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A7

<400> 17965

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tagtggcctt caagattatc tgaaccagca agggttccat gtcgctgcgc atggctgcgc 120
cacttggtgt ggcaactctg gtgacctgga tggatctgta tccgctgcta tcacagaaaa 180
tgatatcggt gctgctgcgg tgctgtcggc caaccgaaac ttcgaagggc gtgtgaaccc 240
tctcactcgg gctaactacc ttgcctcgcc gtctctgggt ggtgcctatg ctcttggcgg 300

cactggtgac attggttttg aagaagaacc cattggaatt ggaaaggggtg gcaaggaaat 360
 tttcttgaag gacatatggc cttcaaacca agagatcgat gaa 403

<210> 17966
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-A8

<400> 17966

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 tgctgcgggc gcctccccga cgtccccagc gccatacggg ggcgcccccc caccggcgat 180
 gtcgaagacg gccgagttcg tggctctctaa ggtggacgac ctgatgaact gggcgcgtaa 240
 gggctcgatc tggcccatga ccttcgggct cgcctgctgc gcggtggaaa tgatgcacgc 300
 cggcgcgctc cgctacgact tcgaccggtt cggcgctcgc ttccgtccgt cgccgcgcca 360
 gtccgattgc atgatcgctc ccggcacgct caccaacaag at 402

<210> 17967
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B1

<400> 17967

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 ccgcgccgac gtcgtggggg gctggtcttg cgccggcaac aactctggag cgcgctacaa 120
 ggccgtcgtg cacctcagtc aactgcgca gtgggagagc gcgcgcctcg aggccgatgc 180
 gcgtctggcg cgcgaggcca ggctgcgtgc ccttgccctg ccaccgtcgc cagggccggg 240
 acccgctttt agcgggctcg agtcgtcgac atcgactctg 280

<210> 17968
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B10

<400> 17968

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ttcaacctta tcttggttca aatccactag atattcttcc aacaatgcct cacatcttca 120
tttaaaatac tggatcttca ccttaatttc aatatccaat atcatcactg ccagctgac 180
actaacttct tccacctata tcatcttcca ttgcataatc taatcat 227

<210> 17969

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B11

<400> 17969

cagcaactta ttaattacct cttaaatttc gaaaactcta aaccaataat atggctaagt 60
catacttctg gatgccagga tattatgcat tatatgcaca caaactttga ctcatcaca 120
aacgtttata gtgtcatctt gcatactcaa ctaactgaca gtcagtataa agacactctt 180
ccggaaacat attaaatgat acaccttgca cgcaaactaa ttaaccactg tccacgaacc 240
tatctcatgc ctagaaaagc aaactcatat gctcctatta ctgcctacag ataccactac 300
ctttgttcat atataactca tgattacatc ttcaattcac atct 344

<210> 17970

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B12

<400> 17970

attcccgtg cagggactcc taccaggtct gggctctgctg gctcttcgac ctgatgagct 60
gcctgtacaa ggagggggac agcatgatgg tcagcctcat ggcggtggtg gcgtcgtacg 120
tctactctg ggtatcatag ccaccagatt catcaagcca tcagcatcgt atagctgcac 180
aaggcgtccc tcgagcttat gactctgccg attcgggtccc tgcagtatga tccacttgct 240
ttactc 246

<210> 17971
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-B2

 <400> 17971

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 ttacttcccc ttgactgggt tggctgagtc agaaatattt tgtttgcatg gtggattatc 120
 gccatccatt gagaccctcg acaacatccg caacttcgac cgtgtccaag aagttcctca 180
 tgaagggtcca atgtgtgatc ttctgtggtc tgatccagat gatcgatgtg gttgggggat 240
 ttctccacgt ggtgctgggt atacctttgg acaggatata tcagagcagt tcaaccatac 300
 caatagccta aagcttattg cttagagctca ccaattgggt atggagggtt tcaattgggc 360
 tcatgagcaa aaagtcgtg 379

<210> 17972
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-B3

 <400> 17972

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 cgtgttgaga tcgagtggct ctttgacggg accgatttct cggagccgct gaccctgtgc 120
 aggtttgagg agctgaacaa cgacctcttt cgcaagacca tgggccctgt caagaaagcc 180
 atggaggatg ctggccttga gaagagccag atccacgaga tcgtcctggt tgggtggaagc 240
 accaggatc ccaaggtcca gcagcttctg cgggactact tcgacggcaa ggagcccaac 300
 aagggtgtca accctgatga ggc 323

<210> 17973
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-029-Q1-K1-B4

<400> 17973

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agctgctggc agccaccagc cacctccatc gttggctaact tggctccctc ctcttggtta 120
gaagatggcc ccatactcgt cctccagctc cgatggacat ggccatgctg ctccgcgccc 180
tgggactggg agagttcaag tggcgttgcc taacgcagat gctgctgctg aagctgatgc 240
agaggtagt ggtggttatg ctgaatctaa cgagccaaat tctactgggtg ctccatcatg 300
tgggtctggg gtcgggtccca atgattctga gtctatagtt gccaaaacat tagag 355

<210> 17974

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-029-Q1-K1-B5

<400> 17974

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aggactgggtg gaaaggcttc agccctttct aaagggtgagg caagcaaagg aaaagcatac 120
agtagtgaca aagggtgaaa gggttcttca tcacatgcag tgcctaccaa gtctgatgca 180
gaactaaagc tagagcttga tatcccttca aattctagaa tgctaataa ttgtgaagca 240
gctgaactat tgcaagaaat tcacgagcac atggccatac tatcagaaga cccaagatc 300
aaaattcctg attcatttga caaaactttt cagtattcaa aagacggaaa tcatttcacc 360
actgcaagct ctgtgaaaca agcattgaa cctcttaaaa aatgtggngt cagtgatgga 420
gagatattca 430

<210> 17975

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H9

<400> 17975

aacgaactgg tgggtgggtt actgggttgg ggctggaggt cgtcgccgac ggccggtgga 60

ggcgctcgct cctgcctgtg tggatctgcc gcccggtggt ggctcgc

107

<210> 17976

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-B7

<400> 17976

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agcggaggct actgtacgtg aaaccgcagc tcagttttgc caattttgat ggggaacagt 120

actaattgat tcaagcattc tggtagttgg catcgcatca tttggaacgt attatgaata 180

tgctacagat cacatggaac atgtttgcat tactttgggt catgcttcaa tatgttt 237

<210> 17977

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G2

<400> 17977

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ggtatcttca gaacgacagt tggcggttac agacctgtac aaacattttc tccaacttca 120

ggactacaat gataggggtca aaacagctga acagaggctg cagtctctcg ttgatgctgc 180

cttggtcgag ctcgacatgg ccgaagatgc tactaccaga gatggctcga tgtacgagaa 240

cggcgtgctt tgaacaccca actgccatgg gtttgtgtgg ttgctgattt gttagatttg 300

tagtttgctg ctgccatgta atagaactgc attgtaacta gaaacaggaa aaatgttgtg 360

taagggtcgg agaatctgct gtcgtggtcc ctgagcccgg atttctcttt cgaaattgga 420

ttcatt 426

<210> 17978

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G4

<400> 17978

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ttaaaaagaa gggggggcca agaaatggcc atgactgcac attccttcca gccctactaa 120
aggcggactt cttgctactg tttctagcat actttccacg agttggcaca cgctcactg 180
tactcaataa cctggcgcat attgcaatgt ctgttgacgc taatgacaca actattctgt 240
tgtgcctctt tctctactgc aaatgcatg ctcaaactct tggatgatct gactctgaat 300
atactgtacg gtcaa 315

<210> 17979

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G5

<400> 17979

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cgtcggggct aacagcggcg aagccggggg cggtcgaggt gcagcgccga cgggcgggca 120
gcggttggac tagccgtcgg atctccatct acgcctaccg agtctacttc ctctcatca 180
tgctccagat cccgctcttc aggtccctt gtagagctgg cacatgcaca actgctattc 240
aagtaacatc atctcagttg gtctcaaagt atatattccc agcagctgtt gtgaaagcca 300
tgctctaccc tggagctacc gtgagcagtc taac 334

<210> 17980

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G7

<400> 17980

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attatgaacg tacaatgtgc aaaccaccaa cggttcaagc taaaaacttc tcatgcaacc 120
atctatttca tctaccttgt ttgtgcatca tacgcttgat caatgactaa tctaataata 180
ctgctgtaca acttgttcta caccgttctt attatcattt gcacatccac aaatgtctac 240

aaattcacat cgtgcaaatg ttcatcaaat tatctaaciaa cttacta

287

<210> 17981
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G8

<400> 17981

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tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
tcggcggcct cgcctggggc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggttcg 240
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aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
gcggcggcgg cggcgggtac ggtggtggcc gtggaggcgg cg 402

<210> 17982
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G9

<400> 17982

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cgggcctgcg gggagggcaa ggtcgtcgac agcttctgcg ggttcaaggc ctacgtcgcc 120
ggccccgagg actccaaggc cgccgtcgtc ctcgtcgccg acgtcttcgg attcgaagcg 180
ccgattatga ggaagatagc cgacaagggt gcttcgtcag ggtactttgt tgtggtacca 240
gatttgtttc atggggatcc ttatgcacct gagaatgttg agaagccctt tcctgtgtgg 300
ataaagtcac atactccgga aaaagggttt gaagagacaa aacatgttat tggggctcta 360
aaggagaagg gagtgtctgc tgttg 385

<210> 17983
<211> 410
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H1

<400> 17983

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ctaaaaagtt gtcattgcaac catctatttc atctagcttg ttgctggatc 180

aaggactaat ggaaggttac tcctgtccaa cttgtcggag accgctctta ttgtcatctg 240

aagggcaaag aaggtctaca actgcggagg tagcaaagt tcagcgaatt gcggaacaac 300

ttactatggg gatgaatcag cagagagttc ctggtaatga acatcctgtt gaacagcaga 360

accctcaga tgctgtttgg agaggtgctg gtctggatgc tagctggatt 410

<210> 17984

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H10

<400> 17984

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cgggctcgca gcagggcgctg tggagcatca tcacccggcc catgttccag agcatgctga 120

gccaccgcgg cgacagcggg tgccagggcg ccttctacac ctacgacgcc ttcattcgagg 180

ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc aggcgggagc 240

tcgccgcctt cttcggccag acgtcccacg aaaccaccgt tggatgggag actgctccgg 300

atggaccggt tgcttgggga ta 322

<210> 17985

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H11

<400> 17985

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gttcaccata ctttggagca ggatttactg tccaaatctc acaagcacat ttcgatcacc 120
aggccgaaga tgacacccat cacaagcacg gaatgaggca ccacgtg 167

<210> 17986
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H12

<400> 17986

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gggcgcgagg aagaagatcc agaaggataa gggccttgag ccctccgagt tccaggactc 120
cgtcgcccag gctttcttcg acctggagaa cggttaccag gagctcaaga gcgacctcaa 180
ggacctttac atcaacggtg ctatccagct ggatgttgcc gggagcagga aggctgttgt 240
gatccacgtc ccataccgct tgcgcaaggc cttcaggaag atccatgtca ggatcgtcag 300
ggagctggag aagaaattca gcggaagga tgtg 334

<210> 17987
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H2

<400> 17987

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gggcccaggt gtttgtaagc agaagtggct ggacgacagg aagaataata tcggcaagct 120
gttggaactca aatggccttg atatgtccaa ggcgtacatg ctcgatacgc aggagactgc 180
ataagccaag tacaagaaat gggagaagga acctgctcca tatgggtggg atgttttcaa 240
tcaaaagacc ttgtatgatg catacaaaga gacgaccaag gatatagaag ttgacatgga 300
cgcgtaaat atagcctagg aagctgatcc tgaattctac cgtgacgcct gcagtctcca 360
gtacgggaag gtgttcaatg tccctgaaga aaacatt 397

<210> 17988
<211> 383
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H3

<400> 17988

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gctctatcta ttaactactt gtgcttgctg gttcttcggt tttttgtcgg cataggagtg 120
ggcagtgggc atgtattttc atcttggttc ttggagttcg ttcctgcagg aaatcgtggc 180
acttggatgg ttattttttc ctttttttgg actattggca cagtcttga ggcttcactt 240
gcatgggctg tactatcagc attgagttgg aggtgggttc tggcattgtc ttcccttcca 300
tgcttcctct tgcttctttt cttcagaatc acacctgagt caccacgcta tctttgcgca 360
caaaatagaa tgactgatgc aag 383

<210> 17989

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H4

<400> 17989

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agcaacaatg ccagaaactc cagaccaagc cagaaagggt gtccgacttc tgtacacaaa 120
ttctgggtgtt gggttgctag cactaggggtc taacgccatt caaaggctat ggaaatggag 180
tcgaaacgaa caaaatccga gtggaaaagc cacagctagt gttgtgccac accattggca 240
gccaaatagt ggtcttgtca tgacaaatga tacagcagat accaatccag aagaggcagt 300
tccatgcatt gcactctcaa agaatgattc ctatgtgatg tctgcttgtg gtgggaaagt 360
ttctttgttt aacatgatga cattcaaggt gatgacaaca ttcatgccac ctcaacagca 420
tcaacatttt agca 434

<210> 17990

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H5

<400> 17990

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gatgttactg atgcgatggt gctggaactt ttttctaaca aataccgata ggtgaaagga 120

gctaaagtta ttattgatgc aaacacaggc cgttctagag gctacggctt tgatagggtt 180

ggagatgata atgacaaaat tcatgcaatg actgaaatga atggcgttta ctgttccaca 240

agaccaattc gtgtaagacc agcgactgct agaagatctc aaggtgattc tggcacttct 300

ccaccaaagc aatctcatgt tgactctact aacaagacgg tatatgttgg tgggcttgac 360

ccaatgtta gcgaagatga actgaggaaa gcatttgc 398

<210> 17991

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H7

<400> 17991

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gccttcctgt ataggcaact ttgtgaggct tgtcatcggt cgtcgaggac cgccagctta 120

ggtggatgtg tctacctact acagctgtgg atgtgggcac acatacccggt cgggcgaccc 180

agagagtttc ctctctgtga gtggttcgtg gtagccggac atcggcttaa gccacggct 240

gcttaccgct gggaccaggt cgaggagcca ttcgcacgac accagcgtgc ttacgtggag 300

tactcaaacg agctcgacgc acttactcct tcgatgggtga cctggcaacc gtatcttgat 360

ccatatttcg ccagcatata gttgagcagc atgtgctc 398

<210> 17992

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H8

<400> 17992

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ccattcacca ttggccgagt caacgagcat aagtacaaga tggcccgcac gcgcaactta 120

gataagaaca tgcagctcat agagagccag ctctagacca acatgaaggc catgagcatc 180
cagagagcac gctcgtggca agcattccat gacagacgtg tatcagctct tgcccaatgt 240
taataagtga taggactgaa cttaggaacc attgctagtt aggccagggg gcgacccttg 300
gg 302

<210> 17993
<211> 224
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-G12
<400> 17993

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tgggcaaaag acttgggtgg gaaattatca atgtcgttac acatcaaggt tttgatcctg 120
ttgatgatcg gatgcaagtt attgatgcaa ctggcaatgt cggcatacta aacctgtaat 180
ctctaattta tatacgatcg gacatgccaa tggttaagctc atgc 224

<210> 17994
<211> 174
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-E5
<400> 17994

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actaactctc cctacaatac atattcaata gctacataaa tgctgatcat tatcacaatc 120
acaagcacca ccacataaac atctaagcca tcccctacta caacattgac cttt 174

<210> 17995
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-E6
<400> 17995

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gaggagatga aggcgttcga cccgtggccg gtcttcttcc gccgggagtg gaagcgcaac 120
 tggcccttcc tcacgggttt cgccatcacc ggattcatca tcacgaagat gacggccaac 180
 ttcaccgagg aggatctcaa gaactctaag ttcgtccagg aacacaagaa gaagcactga 240
 cgaaccaggt gaaggagtgt tcagaaacgc atgtttggcc agccagttct gttatgcttt 300
 tgaatgaaaa atttagacct ttctttctcg tttccttaat cgaaatgctt gcactctatg 360
 ttccatttgt aatgtaataa gaggcataat gattgaacca acaacaatca acttctgatt 420
 gaaaatatcg atgtgtggcc tgaatgt 447

<210> 17996

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E7

<400> 17996

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 tctaagtgcc ttccagaagg aaatggaaac agttcatctt gtagttcgta gtctggaggc 120
 aaagcttggc cgcctagctt atactcaaga tcggacaaca cgaggaatat atgatttgtg 180
 tgaattcact aaaagattgg atcagagccc gaaagctgag actcatcagg ttacatcacc 240
 aactcctcgc cctgctattg aatcctcaga gagaattgct agggctgggt ctttgcccc 300
 agctttggaa ccagagtctc ctagaataga ggcgcctaag gttgtgcgct catctacaat 360
 catgtcagca tcgggactta atttgctagc ttgaactaca acaccaacta aaag 414

<210> 17997

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E8

<400> 17997

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 tctaagtgcc ttccagaagg aaatggaaac agttcatctt gtagttcgta gtctggaggc 120
 aaagcttggc cgcctagctt atactcaaga tcggacaaca cgaggaatat atgatttgtg 180

tgaattcact aaaagattgg atcagagccc gaaagctgag actcatcagg ttacatcatc 240
aactcctcgc cctgctattg aatcctcaga gagaattgct agggctgggtt ctttgccccc 300
agctttggaa ccagagtctc ctagaataga ggcgcctaag gttgtgctgt catctacaat 360
catgtcagca tcgggactta gtttgctagc tggaactaca acaccaccta aaagag 416

<210> 17998

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E9

<400> 17998

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aggtatctcg ggcgggagga ggcagccatc atgtcagagg agaagcacca ccacttcttc 120
aaccaccaca agaaggacga ggagcatccc gccggcgagt acgggtactc cgagaccgag 180
gtggtcaccg tcaccagcga gggcgagtac gagaggtaca agacggagga gaaggagcac 240
aagcacaagc agcacctcag cgaggccggc gccatcttc 279

<210> 17999

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F1

<400> 17999

gcgcggacgc gtgggtgaaa ttacttaagc tcacagggaa caggtcacaa tcatgcatgt 60
gtatctaagt gccttcacga aggaaatgga aacagttcat cttgtagtgc gtagtctgga 120
ggcaaagctt ggacgcctag cttataactca agatcggaca acacgaggaa tatatgattt 180
gtgtgaattc actaaaagat tggatcagag cccgaaagct gagactcatc aggttacatc 240
atcaactcct cgccctgcta ttgaatcctc agagagaatt gctagggctg gttctttgcc 300
cccagctttg gaaccagagt cttctaaaat aaaagc 336

<210> 18000

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-028-Q1-K1-F10

<400> 18000

cccactcgtc cggcccaaga cgatccttat ctactacttg gacaagttgc ccagaaggtc 60

gttcctttcn ctaaggggga tcggctgcga caaggcaggc aaaaatggcg gcaaaggctg 120

caagctcgca agggtttttg agcataacga aaagccggca aggacggcaa ctctcactc 180

ggcagccatc agcggcttgc cgttcttgca ggggaacca tctgcgctct cgcggtcact 240

g 241

<210> 18001

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F12

<400> 18001

gtgcgcgaca cctgccgga gatcgggttc acctccgacg acgtgggcct cgacgcggac 60

cgctgcaagg tgctggtgaa catcgagcag cagtcccccg acatcgctca tggcgtgcac 120

gggcacttca cgaagcggcc cgaggagatc ggcgcgggcg accagggcca catgttcggg 180

tacgccaccg acgagacccc cgagctgatg ccgctcagcc acgtgctggc caccaagctg 240

ggcgcgcgcc tcaccg 256

<210> 18002

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F2

<400> 18002

cgcgttcagc aaccgctccc gtggacacgg caaggcaggg ccgggcctct gcgcacggca 60

tccggccggc tacagcccgg agccgtggcc atggcgggcg ccagccccgc ccctagtcga 120

cctcggtctt ccggtgagct gccctccata tccctggccg tcagtcgttc gccgcgccga 180

tcgcccagga agatctgcga tgctctcgtc gttgccgagg ttggtggccg agtgaggctc 240

cctcttctcc ctttatccct cttcctctct ggctgctccc tccctcccca caggttcttc 300
cccggcgagt agccctgtct gcccctgcc aagcagttcg tctcctcccg gcgagcccct 360
gcgcggctcc ccttccctcc gatgtgtggc cccagcgcac ggccatggcc gagtccctgc 420
agtcgtgccc cct 433

<210> 18003

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F3

<400> 18003

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aattctagaa aactgagggg ttctaggtat cggaggtttg aggaggaatt tagctctccg 120
cttgtctctg agattcacag gtatttcacc gatgaagact acagttacgc aacgaacttc 180
tatattctac tacatgctgt tgatcgattg gctgccaaatt atagcacatt gcctggaatc 240
ttcgacaggc tgaagactgt tgcggcttca gtggcacgtg agatggggtt gaatggagca 300
tcctta 306

<210> 18004

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F4

<400> 18004

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ctttgttggg acttccagct tcagcgagta caccgtcatg catgtgggtt gtgttgcaaa 120
gatcaaccct caggctcccc ttgataaagt ttgcgtcctt agctgtggta tttctaccg 180
tcttggtgca tcaattaatg ttgcaaaacc tccgaagggt tcgacagtgg ctgttttcg 240
tttaggagcc gttggtcttg ccgctgcaga aggtgcaagg attgctggag cgtcaaggat 300
cattggtgtc gacctgaacc ccagcagatt cgaagaagct aggaagtctg gttgactga 360
atgtgtgaac ccaaaagacc acaacaagcc cgtgcatgag gtacttgctg agatg 415

<210> 18005
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F5

<400> 18005

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ttttacattt ggcaccgggt taccttttct attcttaaaa cttatttttt ttgacctctg 120
gaaaactgta ttttcaggac attctgccac gtctcttatt ccaaaggctc tacattcttt 180
ctgtctttta aatatgacta tacttctcta aaatgtggag ctcatacaaa tcagcaagat 240
aaaacagata atcccatcaa aaagtgggtg cagaacatga atagacaatt ctcaaaagaa 300
gatacacaaa atataagtggt tatacgtaa ctatgtct 338

<210> 18006
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F6

<400> 18006

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cttggacttt tagcaccatg ccgttcatat gcgagtacat ctcgatttga cttccaaaat 120
gcaattgaga aacttccgaa caacatattt gagaagagct atcctttgag agagtttgat 180
ctagcaaaac gaatcagtgct attcttttat aaagctgctg agcttagtct ggtaggggtt 240
gtagctggct ctgtgcaagg gggatatgtca atagtcttgt ccgcaagaaa agaaaggagg 300
ttatcgggtga ctattccctc tatcagcacc aatgctcttg gttatggagc tttcctagga 360
ctctatgcta acttgccgta tcaattgcta tgttgag 397

<210> 18007
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F7

<400> 18007

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ctccgcgagg aggcagcttg gatccggtcc catgctacga caggttttgc gaaagctccg 120
tccggcagcc gcggctgagg tagcgagggg ctactccgct gctgcgaacg agatgactgt 180
ccatgatgca ttgaactctg cactggatga agagatgtct gctgacctt caggatttct 240
gatgggagaa gaggttatag agtatcaagg tgcataccag atttctaagg gctagcttga 300
caattatggt cccaatagga ttcttgacac acctattaca gaagcctgct atactggca 359

<210> 18008

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G1

<400> 18008

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ggttgggtct gggacaccgt ggctccgatg aagctgtacg gggcgggtgat gtcgtggaac 120
gtgacgaggt gcgcaacggc gctggaggag gctggctccg actacgagat cgtgcccac 180
aacttcgcca ccgccgagca caagagcccc gagcacctcg tccgcaaccc gtttggtcag 240
gttccagctc tgcaggatgg tgacttgtag ctcttcgaat cagcagcaat ctgcaagtac 300
gctgctcgca aaaacaagcc agagctgttg agggaaggaa acc 343

<210> 18009

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G10

<400> 18009

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ggacaggaga cggccgtgca catcgtgtac gttgaccgcc ccgaggacgc cgaccctgag 120
gagttccaca tccgcaccct ccccccgctc ctccggcagcg aacagaatgc cagggacgca 180
gtgctctacc actacaagaa cgccgccagc ggcttctccg cgaagctcac cccccagcag 240

gtcaaggatc tcaaggagca accaggtgtt ctccaggttg tgccgagcca gacttaccag 300
ctacatgggc ctgggtctgg cactcaccag ggcacgacac aacactttgg gccttatgtg 360
aaggcgtatg agaatc 376

<210> 18010
<211> 168
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-G11
<400> 18010

ccattaccgt gttcaacatt ttgatgaatg aagctgtgac tcatgatgta agagccgcag 60
ccaatgggat agcggtagca ctaatgtcca tctctaaagc ggttgctcca gctgttgagc 120
gattcatatt ttcgtgggcc caaaggcctt aaacagctgc attttttc 168

<210> 18011
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-E4
<400> 18011

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tcatatatgg cgattactac actccagtcg tccagttcat gcttcagcct gagaagtttg 120
gttttgccag acaactgccc agggcatgtt gtggggcgcc atcgactcct gagagagcag 180
cttacaactt caatgtcacg gccaaatgcg gtgagcctgg tgcaactgcc tgtgctgac 240
cgacaacca ttggagctgg gacggcattc acctgacgga ggctgcctac cgccatatcg 300
ccaaaggctg gctatacggg cctttcgcg accaaccgat catccaatcc tcatgatcat 360
gccgttcctg ctgtagag 378

<210> 18012
<211> 340
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-C2

<400> 18012

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catcccagac aggggtgcggg gtctagacga cgggtggtgca cctcaaccg tctgggcgct 120
tcgtcatctg cgggccccac ggtgactcct gtctcaccgg ccgcaagatc atcatcgaca 180
cctacggcag ctggggagcc cacctcgttg gcgccttctt cggcaaggac cccaccaagg 240
tggaaccgtaa cggggcctac gtcgccaggc atgacgtcaa gagcattgtg gccagcgggc 300
ttttccgacg gttgctcgtg caggtgtact acgccatcgg 340

<210> 18013

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C3

<400> 18013

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gagttgccac ataatatcgg gactacatat tatatagtca ttcaacgcaa ggctatttga 120
ttatctaata tcgacggatg acacttaaac aaaggagaag cataccaatt aggactatag 180
ataagaggca tcattgacct gcaaacggat caagcaaacc aataaggatga accagataga 240
gctaaacgtg tcccgcgaac atttgccaca gactttacat gcttaatacg gagttgtcag 300
acgaactgac tgcaaaaatg cattta 326

<210> 18014

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C5

<400> 18014

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ctacggccgc gccgagcccc tcccgaagtg gtccgacgcc gacgtcgacg agttcatcgc 120
atccgaccgc gtctacgggc ccagctcaa ggccctgcgg gagtcgagga agttcgcgct 180
cgccggggcc ctcgtcggcg ccgccacct cgtcggcgct gcgctcaagt actccaaggc 240

gccgcacggc gtccctgctgg cgaccggcctt cggcacgac acc 283

<210> 18015
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C6

<400> 18015

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cttgatcagg ttttatttac ctgctgagcc gctcatcaag tggccaact ccaacttta 120
caagttcata gcctcctacc acgtctacac accctagctc acggccctga tctattcgag 180
gtagtctgtg ctgcgcgct tctccacag ctaccctat cttttcacat tcacgctaac 240
gttctcctaa acgtctctcg ccatgacaat acaacctggc ttaagaacaa tatcacaatc 300
accaacgaca atggcgcgtct ctcca 325

<210> 18016
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-028-Q1-K1-C7

<400> 18016

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ccaaactcga atcgtgtatg gtggtagctc ctaaatectt cggcgggcag ttaaccccca 120
atcattgac cctcaccagc ttgggggcgg tttcgctccg gttcttgccg ttccggtcca 180
ggccatggag cagcggaggt ggctcgcagt agccgttttg atgtgcctgc tgggtgcttg 240
ctccgggaga gaactgaaga ccaaacacgt gccatataat gaccagtgcc tggcccgagc 300
acttgctgaa tatacttctg ctgtctatac tgctgacctt acccaactgt ttacatggac 360
atgtganaga tggtgtgact taacagaggg gttcaggtga tag 403

<210> 18017
<211> 409
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-028-Q1-K1-C8

<400> 18017

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ttacaagagc tcgtacaatc ttcccatgac ttggtcatga tcaccggaga ccaagcggtg 120

actgcctgtc atgttgctag ccaagtacat atatcttcca aacctgtttt gatcttgaca 180

cggataaaga ctggcggttt tgagtgggtt tcgccagatg aaactgatag agctccatat 240

agtgctgtgg acgttgcagt gttatcagaa tctcatgacc tttgtattaa tggggactgt 300

tttgaaatgc taaaaagtac tgaagctgtt ctccaggta tcccttatgt aaagtttttt 360

tcacgtgttg ctccagaaca aanagaactt gtactaacta cattcaaaa 409

<210> 18018

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D1

<400> 18018

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gtttgagcga gttatcaagg gagaggacat ctgttaagag attgaagaag tcgacactga 120

tgagcattac cagctaaagg ccttcatagg cattatcgat atcgtgctaa aacaggagcc 180

ttgagcctgg atgcacatga tgacgttaac cacatgccga cggacttttc tgtagttgga 240

aaatctatct 250

<210> 18019

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D10

<400> 18019

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tggctccttt ggtcagcgcg ctccacaccg tgcattccaca agggattctt ccccggtccg 120

aagaacgtta ccttccaaac aggacaagga aggtgaccgt gcgaaatcgc caccgatgaa 180
gcaccggagt cggagctctg agcgtgatca tgatttggag agggagcgcct cggatcgtga 240
acgtggcagt ggcaggtact acaaggatag ggagcctgat cggcatgctc gtgagcacag 300
agaccgcgat catcgtcggc ctgattatc gaacagggat ggcgaaacac gaggccgtga 360
aaggaggagc agggattctg accggagtag acatgc 396

<210> 18020
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D11

<400> 18020

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gcttggttgc tctgcagcag gcactcatca tgtctcatga gaagcacctt ctcttcttca 120
accaccacaa gttacgacta 140

<210> 18021
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D12

<400> 18021

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cgacatggtg ctctgcggcg gcctagtcgt gccgtggctc gcggcggcgg tggcgggtggc 120
cgcgctggcc atcaccgccg tcccggtcgg cgccgatgcc tacaagaact acaccgtcgg 180
cgatgacaag ggctggtacg acggcctcag cctgcccggg gtcgactacc atgcgtgggc 240
tgacggcaag aacttcagcc tcggggattt cctcatcttc aacacggaca agaaccactc 300
ggtggtgcag acgcggaacg tgacgctgta cgagagctgc gactacaacg 350

<210> 18022
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D2

<400> 18022

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aggactctga cgaagatgaa ttggaagata aacacctgct tccgactact tctgttggtg 120
aagacacaat tgtaaaagaa attcacagat gaatttctgg tgaagccttg cagtgatttc 180
tctatgtatt ctaaaatcta atggggtttca atactcattg tgcagcttgt cgttcattat 240
gtatattgtc attgtatttt aaaatgtcat gtgctctttc tgttgtgctc tgaaattttg 300
tgtacatttg gtgggtagtc tgtatttatg gttgagttca tttcacttgg tgaatgattg 360
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<210> 18023

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D4

<400> 18023

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cccaacgtca gtgctgcggg tggtaggcat gcgggctctc gcgcgctcct ttgcacccca 120
tcaagccaag gtctcacttt cctactccca tcgcgctcga gtctcgtaat gctgtgcccc 180
ctcgcaggct tcaaatccct gacgattcat ccattccatt cattccatac agcacactca 240
cagcaaaaacg ttcttttacc ctc 263

<210> 18024

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D5

<400> 18024

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tcctgtcaaa aggaagatcg agaagaagag ggagaagggt ctttatcatg agagtgtact 120
gaagcggaat ccgtttgtgc agccaatccc atcttatgtg ccgggcaaga aggataagaa 180

gatacagaat gcagaaattg cacgagacac aggtacgaga aaggtgttcc tatggaaaat 240
 gaatctgtag tatagaactt tgacatctga tctg 274

<210> 18025
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-D6
 <400> 18025

agcagaactc tctcgacctc atcggcggtg gcgagcgcg tgttgaccgg agatggggcc 60
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 gtggctcgcg ctgcgcgcg ccgactgac gtcgcccag gctaagaagg acctgacgga 180
 ggttaccac aaggtctact tcgacatcga gatcgacggc aagcccgag gccggattgt 240
 catggggctt ttgggaaga ctgttcctaa gacggcagag aacttccgag ctctttgcac 300
 aggagagaaa ggggttgga agagtggcaa agccctgcac tacaaggaa gtaagttcca 360
 cagaatcatc cccagcttca tgc 383

<210> 18026
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-028-Q1-K1-D7
 <400> 18026

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 accaccattc ccaccacaat tctcattctc acaaccgtac ccaccaccac tctactctc 120
 actccggagg aggtggaggc ggcngcngcn gtggcgccgg cgggtggaagc agaagcggag 180
 tggctaaatg ccactgtgat tgctcacacc atgatcatc 220

<210> 18027
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-D8

<400> 18027

gcaagctaag gagagtgtga tcaccaacag ctagtgctag tcccccttcc ttgcatgcat 60
ccatggcatg cgtcagcacc ttccagagct gcccattgc cagaagagca aagatcaaca 120
cgagggtccag gggctgcagc agtagcgtgg cgaaggggtc atcaccacca gccttccagt 180
tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct ccggctcgag ctggacgaga 240
accccgaggc gatcatctcg ggggcgtggc ccgggaactg ctccctctc agctacgacg 300
acctccgcgc ctaccttgag tcgcaggaga cggcggccca ggcagactgt cagcagcgcg 360
gcgtggcgct cctgagcgag accattgtca cacc 394

<210> 18028

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E1

<400> 18028

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agttcgggca tggagggcca gttccaggat ggcaaggagg aggtcatcca agcatggtac 120
atggatgaca gtgaagagga ccagaggctt cctcatcatc gcgagcccaa agaattcatt 180
cctctcgaca aactttccga actaggaata ttaagctggc gcctaaatgc tgatgattgg 240
gagaatgatg agaacctcaa gaaaattcgt gaagccaggg gttactctta catggacatt 300
tgtgatgtgt gccagagaa gttgccaaat tacgaggctt aagataagaa tttcttttga 360
gaacacttgc atactgatga agagata 387

<210> 18029

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E10

<400> 18029

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ctatctcagc cgaggaggaag ctgccatcat ctccgaccat aaccaccacc acttcttcaa 120
ccaccacatc aatgacctgc atcataccgc cgtccagctc ctctactc 168

<210> 18030
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E11

<400> 18030

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ggtggctcta tgaagggtgc gaggatgaaa ctaagggggg ttatattgct aagctagaag 120
aacttaaaaa agttggtgat cctattgagc tgcgcttcaa ggaatgggag attagaagtt 180
ctgctgttag ccaactggta tactgcatca atagcttcag agaagctgca cagtctaccg 240
accagaagtt tgaacacata gacatgtcag aaaagcgaaa ggtcattaat gagtgttcgg 300
aaacagagac ttggctatag agaaaagcag cagcaggatg ct 342

<210> 18031
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-E3

<400> 18031

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gatcgcagtg ttgcttgggc ggcgcatctc gggcgagagc accacactgc tacactgagg 120
cctgagccat ggccactgac accaaagcgg 150

<210> 18032
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-C10

<400> 18032

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ttgtccacct actcggacaa ccagcccgggt gtcctgatcc aggtctacga gggtagagagg 120
 acccggacac gcgacaacaa cctgctgggc aagttcgagc tctccggcat cccccctgca 180
 ccccggtggtg tgccacagat caccgtgtgc tttgacatcg acgccaacgg cattctgaac 240
 gtgt 244

<210> 18033
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-A12
 <400> 18033

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 tgcttgattg cagtgactgg tgtcttcctg gagtccctga tgcttgaat gaacttgtgt 120
 tttcgtatct tttgacaaat ggttggcgaa acatgccggg ctgaaattta tggcagcatt 180
 gctcaatcta cccccacttt ttgtattttg atatttgaca ttaccaggta tactagagaa 240
 ttaacatact cccggtacat gagacagctg catctgctgt aggtacggtg gttcactaga 300
 cttctgcatt ct 312

<210> 18034
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-A2
 <400> 18034

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 caagggtcct gagttgctta ccatgtggtt tggtagagac gaagccaacg tccgtgaaat 180
 ttttgacaag gctcgtcaat ctgctccttg tgtcctcttc tttgatgagc ttgactcaat 240
 tgctactcag agaggaagca gtgtgggtga tgctggaagt gcggctgata gagtgcttaa 300
 tcagctactg acagaaatgg atggcatgaa tgccaagaaa actgtgttta ttattggagc 360
 taaaaacagg cctgacatca ttgaccctgc tct 393

<210> 18035
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-A3

 <400> 18035

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 ggcggaacgct ggtgcagcta atgataattc ttggatccta cttccatacc tttgtgctgc 120
 attcatggtg tccaacattt ggaacggtgc tgtttatgat gtcaatatag gtggactcag 180
 taacaatttg cactgcctag caaggtgtgt aagtgtctgtg attgggggaa gcgaatacac 240
 tcgggtcgaa agggagcagc gaataaattc tctttcaaat gtgcatacag atgagctgca 300
 agaggccgag ttaccgagcc gtgtctcagc agaagcaa atcaaattctt gtatgcagat 360
 ctacgtcaaa ctgtctgcag ggatcgtcct ggattcatgg a 401

<210> 18036
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-A4

 <400> 18036

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 atgcacacag ttaaattgaa caaaggacct ggagaagata gtatcaagcg acaattacaa 120
 gctgttgctg aaggggtagc cgcattcagtt cttcagccac cttttcctga aaaaacagtg 180
 gtgttctctg gggatcacat cgattcgcatt ggagcagaag ttgatgtcaa gttccaggat 240
 gaaaggaaca atcagtcaga caaaataagt caaggggttc aagttttaga tgacaacgat 300
 aaccttcaga taataaagaa cagtgcctt gaagaattgc gtgaacttgt ttctggaacc 360
 tttggtactg ttaccatgg aaag 384

<210> 18037
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A5

<400> 18037

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tacctgagcg aggtcaatgg aatattccaa agatcccagc atactccata atgatagcct 120
gaactgctac catcacacct accaactgct cctcgaaaca tgacgccctc agctgtatcg 180
gccgatgact taatcgacat ccactatgaa gattctgac ttttacattt ccagctatac 240
tatatcctct acatacacct gggacaagac acaattgcaa cggccgtacg cacgatgttt 300
cactagactt ctg 313

<210> 18038

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A6

<400> 18038

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tgtcgtcgtc tctctctcca gcggcggcag ccgcgccctt ggatctggac ggcaactccg 120
tcgcgccctt caccatctgc atgattggcg ccggcggctt catcggctcc cacctctgcg 180
agaagctcat ggccgagacg cgccatgtcg tcctcgccgt cgacgtatac tgcgataaga 240
tccgccacct cgtcgacccc gcgccgacgc acctcgcggg gcgcatctcc ttccaccgcc 300
tcaacatcaa gaatgactcc aggctcgagg gcctcatcaa gatggccgat ctgaccatca 360
acctggcggc tatctgcacg ccggccgact acaacacgcg cccctcgac ac 412

<210> 18039

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A8

<400> 18039

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cagtttgaaa agccacttga tgagcgcgta tgctcctcaa gtaggcctta atgagaactc 120

aaagagagag ttctgggaag gcctggagga catggtagt agtgtgccag ttggcgagaa 180
 gctcttcata ggaggagatc tcaatggcca tgatactgca agagaaattt tgagagcagc 240
 tcctggtggt accattattg atgaccgagc ttccaatcgc tttcctacac ctctggaggt 300
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 ccgaggggtg gacatatattg tgtgtggtga tca 393

<210> 18040
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A9

<400> 18040

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 cagccgttca aaatgtgagg acaagagatg ggtaccaagg aatggaacat caaaatcttc 120
 gtccagtgtt cgagatgaga agagccaaga gtctccggct agtgctaata ggagtggaca 180
 tgggcataga tcttcatttg agcaaaaccg tgcttcgcca gctattccga gcaaagtttc 240
 acatgcagct tcaaggatat cctctcaagc atcacctcag cccccgaagg ttgaaacacc 300
 agttccaaag gtgggttttac cttcttaatc acaaaaattc cc 342

<210> 18041
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-B1

<400> 18041

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 ggaggggagt ttgcatcagc ggcactgacc aaggagggtg cggattatgc cacacgcaaa 120
 ccgcttgatt gttgcttcgt aaaggccaag gagcgggtgc ttgaaaccga cggcaactgt 180
 catgata 187

<210> 18042
 <211> 398
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-028-Q1-K1-B10

<400> 18042

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ttggccggaa gccatggatg gagactgatt tgctgttagt tgctgctcca tgtccaccat 180

ctccttggtt tgctgttggt ctcttcttga cgtgggtcca cgacgcgagc cctggctggt 240

gcttcggcct tctgtcagtt gaggcctatg ctgcttctgc aggtccttct tacaccctgc 300

aacactaccg tttggtgtgc tgacatggaa attggggcag caggacagct aggtgtgttg 360

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<210> 18043

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-B12

<400> 18043

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ggagcagcag cagcggcggc gatggcggcc tccatgatct cctcgtcagc tctggcgggtg 120

gcgcctcatg gcctgccggc cctcggccga cgcgctact acttcgccgt cgtctgctcc 180

aagaagaaga tcaagaccga caagccctac gggattgggg gtggactgac cgtcgacgtc 240

gacgccaacg ggagaaacgg catgggcaag ggcgtgtacc agttcgtcga caagtacggc 300

gcgaacgtcg acggattcag tccaatctac aacgaggatg actggtctac caccggcgac 360

gtctacgtcg gtggaaccac tgggcttctg atct 394

<210> 18044

<211> 384

<212> DNA

<213> Zea mays

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<400> 18044

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agctactgga tgagctgggc atcccagcag aagatgcccc agttgaccaa ttcacccctc 180
tgggccgaat gctttacaag gcaccatctg atgggaaatg gggggagcat gagctcgact 240
acctgctgtt catcgccgg gacgtgaagg tgcaaccgaa cccagatgaa gtcgctgatg 300
tgaagtacgt gaaccgcgag gagctcaagg agtcatccg gaaagctgac gctggcgagg 360
atggggtgaa gatctcccc ttgt 384

<210> 18045
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-B4
<400> 18045

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gggtgtgaag cagtgcagg gcaggaacct cttcttcagc actgatgttg agaagcacgt 120
cgctgaggct gacatcatct tcgtctcggg gaacaccccc accaagaccc gtgggcttgg 180
agctggcaag gctgccgacc tcacctactg ggagagcgct gctcgtatga tcgccgatgt 240
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tattgagaag atcttgacct acaacagcaa gggcattaac taccagatcc tttgcgaccc 360
ggagttcctt gcagagggca ctgctattga ggacctgttc aag 403

<210> 18046
<211> 116
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-028-Q1-K1-B5
<400> 18046

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tttagttgtg ttggaattgg ccatgttatt tacaatatga tctatactta aattga 116

<210> 18047
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-B6

 <400> 18047

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 tttacatctg gtcgaattgc ccatcttata cacaatatca tctttactaa acttgatatt 120
 actcctcatg aacttcctc 139

<210> 18048
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-B7

 <400> 18048

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 acttatatat cttacacagt cagtatttta tcaatggctg tactccccaa cctattt 117

<210> 18049
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-B8

 <400> 18049

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 cttcggcgag gcccgctga cgatgcgcaa gacggcggcg aaggccaagc cggcggcggc 180
 gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac ctggggccac tgtccggcga 240
 gccgccgagc tacctgacgg gcgagttccc gggcgactac ggctgggaca ccgcggggct 300
 gtcggcggac ccggagacgt tcgccaagaa ccgggagctg gaggtgatcc actcccgtg 360
 ggccatgctg ggcgcgctc 379

<210> 18050
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-028-Q1-K1-B9

 <400> 18050

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 gcctatgatt gatttctggt cacataaact aggtggatca tatttacaag cacatgaact 180
 cctggatact gctaattgatc ttctcaaggc gaagatggag gctgtattgt ctgagacang 240
 atcacagcat gcagcttcca tgactgagnt taactggcta ggtcgaactt ttcctattac 300
 aaatgcatag acccgtgtct ctattttgaa agcccatcag cttgagagag acttgagtgc 360
 tgcagccaca gaatcagttg ctgctgacaa aaagcttgct atattggata aaatattt 418

<210> 18051
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-C1

 <400> 18051

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 ctgcacgatg actcctatgt tacggccaag tagcagatga ttaactacta cggcatcttg 180
 acttacactc tcctttcagc gtactacatg taaaacagct accctcactt ccataaacgg 240
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<210> 18052
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-028-Q1-K1-A11

<400> 18052

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ccacttattc aaccaccaca agaaggacta ggagcagccc gccggcgagt actggtactc 120

cgagaccgat gtggtcaccg ccaccggcga gggcgagtag tagaggtaga agaaggaaga 180

gaaggatcac aagcacaagc agcacctcga ccaggccgtc gccatcgccg ccggcgccctt 240

cgcactctac gagaagcacg atgcgaaaaa tgaccccgag cacgcgcaca ggcacaagat 300

cacggatgag gtcgcttccg cggctgccgt cggcgccctgc ggctacgtat tccacgagca 360

cca 363

<210> 18053

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-G5

<400> 18053

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acctcccggg cttccggttc catcccaccg aggaggagct cctcggcttc tacctctccc 180

gcgtgggtcca eggcaagcag ctccacttcg acatcatcgg cagcctcaac atctaccgct 240

gcctcccaag gaggacatgg tgatctgcaa gatctacagg aaggccacgc cactgaagga 300

gctcgagcag agggcctctg ccatggagga gatgcagacg cgcacggcg gggctagagc 360

aacatccctg gtccaggccg ncggetccac cggcgacgac tacctgtcgt ccgacgacac 420

aagc 424

<210> 18054

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-G6

<400> 18054

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 ttcnngnaca tcaatcgga ctgcaccctc aacaccactc agaggctcta tggtttcgcy 180
 atatgcttgg ctgccggact gacgtgcaca ttcttgtaa tgcttgctt cttcaatcca 240
 gtgaaatttg gggtagcatt cacccttggc aatttgatgg cccttggaag tacagcattt 300
 ctcataggcc caaaagaca gtttgatatg atgcttgatt ctgtgcgaat atatgccact 360
 gctatatata ttgcaagcat cataattgct ctattctgtg ctatctacgt tcgcagcaag 420
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<210> 18055

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G7

<400> 18055

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 atgactggga tattctgaag aaaacgactc aagtgaagca ttcaacggct ctgatccaag 180
 gcatgcatcc gccgatcaag atcaaagctc gatgctcaac gtcatttact aaccagaagg 240
 atcgtttcca tgcacatctg cgctaaactg acgacgaact gacgagacta ctagataagc 300
 atcagatgct gactagtga ctggaaaaaa ctatagctga tgatgcgcaa cttgttcgaa 360
 agattcaatc ttatcaaaac tataacc 387

<210> 18056

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G8

<400> 18056

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aaggctacgc aaagcgaggc ttgcccgtg taccactgca tgctgctgct gaagacaatc 180
 ggcaaccagt gacgtcctat ctgaactggg gactcaaagc gcgcgcatcg catgccaacc 240
 c 241

<210> 18057
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-G9
 <400> 18057

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 ggacgaggag gagggatgag tctattcggg cttggacgaa accagaagac attccgcccc 180
 aagaagagcg ctccatcagg tagcaaggga gcacagctcc gaaagcacat agatgccact 240
 ctcggcagtg gaaaccttag ggaagctgtg aggttgcttc ctggagagga tatcaatgaa 300
 tggctcgcgg ggaatactgt ggattacttt aaccaagtta atatgctgaa tggaacactc 360
 acagaatttt gaacacct 378

<210> 18058
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-027-Q1-K1-H1
 <400> 18058

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 gcggcgccgg ggagatggca gcggcgctgc tgctgctggc ggccgggggccc gggacggcgt 180
 cggcgccggg gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc gggtagcgga 240
 tgggcagcgc ggcgtcgcgc tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc 300
 gcgcgtcgtc ggcggcggac cggcaggcca cctgcaactg cctcaagagc atgacgggcc 360
 ggctcggcgg cggcgtcagc atggccaacg ccgncaacat ccnncgcaag tgccgcgtct 420

cogtcggcgt gcccatc

437

<210> 18059

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-H11

<400> 18059

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agcggcgctg ctgctgctgg cggcggaggc cgggacggcg tccgcggcgg tgagctgcgg 180

cgaggtgacg tcgtcggtag cgcgcgcct cgggtacgcg atgggcagcg cggcgctgcc 240

ctccgcggcg tgctgcagcg gggtagcgtc gctcaacagc cgcgcgtcgt cagcggccga 300

ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgctcag 360

catggccaac gccgncaaca tccccggcaa gtg 393

<210> 18060

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H12

<400> 18060

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cttgccctcg ccgccgtttg ctccaggcgc agcgcaaaa aggagtacgt ggctgacaac 120

gccgggatgt tggcaggcgg catcaaggac gtgccggcga acgagaacga cctccagctc 180

caggagctcg cgcgcttcgc cgtcaatgag cacaacaaa aggccaatgc tcttctgggg 240

ttcgagaagc ttgtgaaggc caagacacaa gttgttgctg gcacgatgta ctatctcact 300

attgaagtga aggatggcgt agtcaagaag ctttatgaag ctaaggctctg ggagaagcca 360

tgggagaact tcaagcatct gcaggaattc aagcctgttg aaaagggtgc tatcgccata 420

ggatctgtcg tctccctgtg ca 442

<210> 18061
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H2

<400> 18061

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 cttgacagtc gccttcctga tgttcccagc gccatacggg gacgcctccg caccggcgat 180
 gctgaatata gtcgacttcg tggctctctaa cgtggacgac ctcatgaact ggccgcgtaa 240
 ggtctcgatc tggcccatga cctatcggct cgcttgcttc acgatgcaga tgatgcacgc 300
 cg 302

<210> 18062
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H3

<400> 18062

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 ggtgttcgtg ccgatggcgg tggccctggg tatctgctcg taccagcttg tgcgcaacat 180
 cacgggcaac cacgaggtgc gggtgaccaa ggagaagatg gcggacggcg tcctggacaa 240
 ccacgactag ggcgagaggt acgccatgca ctgcctcagg aagttcgtcc gcgggaagaa 300
 gccctagatc atggctttca tcaacttctt cttcgctcgac ccttccaagg acgattaagc 360
 tagattccgt catggatgga tgagtatgtt ttaccaatca ttagctgccg gtggcgcg 418

<210> 18063
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H4

<400> 18063

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aggttgcttg aatctgaagg aattcaaacg catctaacat ttgtttacag ttctgcacta 120

aagcggcagc ggcagcacia gctggtgcat ctgtagtaca aatgtttgtg ggccgattgc 180

gggactgggc aaggcatcac tctggtgacc cagagataga tgaagctttg aagaatggag 240

aagatgctgg gctttctttg gcgaagaaag tatatgccta tattcacagg aatgggtaca 300

aaacaaagct gatggccgct gccataccga acaagcagga cgtatttta 348

<210> 18064

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H6

<400> 18064

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ccactattca ggaagtctaa gatgcactgc tcttgaagcg tgtgcacatc cattctttga 120

tgagttgcga gagccacaat tggcgcgtggc caactggacc gccatttcct aactgtttca 180

actttaaaca ggaactatca aatgcctcca cggagctcat caacaggctg accccagacc 240

atgctaggcg gcatcttggg ctcaactttat tgcccaccac tggaccatat gcgaaggctc 300

tatgggtgttt aaaccttgct cgttctgatt cttcgttgtg ccataggcat tgcaagggtg 360

agaatctga 369

<210> 18065

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H7

<400> 18065

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gccgagaccg gcgtgttcgg cccggcggca gtggacccca agctggcagc tggcggcgcg 120

tcccttacgc cggcgcggat gctgcaggag gcacgggtgt ggaccagaag gtgtgggttc 180

gcccgcctcga ggacgtcgag aagccgcccc ccgccgcgtg agccgcgcgg cgctgctagc 240
ccagcccaca ctgctgctcg ctcatataaaa gggcgggcggg agagcctggc aggcactctg 300
ctcgtgctcg gctgggctgg actccctgct tatatcacta caatattata ctactagtag 360
tggtgcttga tagcagtgtg tggctgtgct aataccagta taatactggg tctactataa 420
tcagtcgta 429

<210> 18066

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-H9

<400> 18066

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catgaaactg gtcatatagg cctgaccata catgggttca caacgtgccg gacctggagc 120
taaacataga taatgccgaa cactactgca tacgcgtaga cggactcaga tcaactctacg 180
cttggtgcgg tacaaaagttt actgtcacag cattcgatca cgatgacgac atcatcatgc 240
tatctcacgt ctacgacaga tccatctata cgactctatg acagcttcta tagc 294

<210> 18067

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A1

<400> 18067

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atctcaaacg gttctccaaa caagacgcac ttaaattttac tgaatcacia cttaatctac 120
ctccactttt tatatactga tattatacat tacacactat accacataat taacatact 179

<210> 18068

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-A10

<400> 18068

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tggccctttc ttccgagagg ctctagtagtta tcgttgccga catgtactat ttgctggcat 120

cgttggccgg aagccatgga tggagactga tttgctgtta attgcttcta catgtccacc 180

atcttcttgg ttctctagag atctcttctt gacgtggtac cacgactcga gccctggctg 240

gtgacttggc cttctgtcag ttgaggccta tgctgct 277

<210> 18069

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G3

<400> 18069

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tttgaaactt gaggatgaca taggaaaggg ctacagttca actgatagga ggggctcact 120

cttgaatgac tgggatattg cagagaaatc ggctcaagtg aagcatccga gggctctgat 180

ccaaggcatg catcggcaga tcaagatcaa agttcgatgc tcaaggatcat ttgcaaccag 240

agggatcggt tccgtgcacg tctgcgtgaa actgaggagg aactgaagag actaaaagag 300

aagcatgaga tgctgactga tgaactggaa aaaactaaat ctgataatgt gcaactgtat 360

agaaagattc gatatgttca agactataac cacgacaaga ttgcttccac gggaccagac 420

aagtacgcat aagatattga aagt 444

<210> 18070

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E9

<400> 18070

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agggccttta cctctatggg ggtgttggtta cagggaagac gatgcttatg gacttgttct 180

atgaacagct gccatctaata tggagaaaaa aacgtattca ctttcatgat ttcattgtga 240
acgtacatag tcgtcttcag atgcataaag gtgtttcaga tccccttgat gttgtagcag 300
ctgagatttc agatgaggcc atcatattat gtcttgatga gtttatggta actgatgttg 360
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<210> 18071
<211> 68
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-027-Q1-K1-F1
<400> 18071

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cgttttac 68

<210> 18072
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-027-Q1-K1-F11
<400> 18072

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cgtgagggtcc tcgccggcga ctagtgcctt cgtccgtttc catgtatttt ccgccgatta 120
gtgtccacca gatctagtga acgctgggta cttgactcaa ggtgttcaag aaatttaagc 180
cacacactct tcatcatatg cccaggcaat atttgtgtta atctcaggga cctccagtag 240
attgctgaga gttatccttg atacagggga atatagacac agaatttttt gaacattgat 300
ctgtagccag tgctgcaatg gctacaaagc ttgtggttct cggatatccc tgggatgttg 360
acact 365

<210> 18073
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-027-Q1-K1-F12

<400> 18073

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gtggcaagga ttcttgagct ctgcattcta catattgcta tggctgagat ggcatcaaaa 180

ggaacacccc acaaagttgt cattaatgag gcagtagatc tggcaaagcg attttgtgat 240

ggtggtgccc ctcggttaat caacggatgc cttcgaacat ttgtgaagga tcatgttgat 300

gttgcaggca cgagccaaga agctaaatca aaatcatgat tttttgcaa tactcataca 360

acaaaatggg ggctgaagta aagaagtacg gagagaacct tgctgtcttg agttcaagcg 420

aataccttct gtc 433

<210> 18074

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F2

<400> 18074

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ggatgatcct ggttcgtgcg tggaggcagc ggaagctgaa gtggctgcca tgagaacact 180

ctcggtagca ctgatctgtg cggggccaga tcgtggcgct cacgtacttg atactgcatg 240

ccatgtccag aatgatacca tgacacggct tgcagatcct ggatcattac cggaagaacg 300

atcacagccc gacatgcaac ctaggcactt gaaaagacgc aaagcgcata cggttagaga 360

aatctatgt 369

<210> 18075

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F3

<400> 18075

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cgcgccgctc ctctggcggg gactcagctt ccccgctccg acccctcatc ccacttcgcc 120
gccgacctcc ccggcatccg gcccctccgg tggcccgcta gggcggctca cgagcctccg 180
cggcgcgggc cggttcatcc gccgcacggg gagccggcgc ctgatgaggg agccctccgt 240
ggcgggtgcg gagacggccg ccgagcacct cgaggagcgc cagaccgact gggcctactc 300
gaagcccgtc gtcgtgctcg acatgctctg gaacctcgcc ttcgtcgccg tcgcccgggc 360
cgtactcgcc gcatcggtgg gcgagcggcc caccgtgccg ctccgtgtct ggatc 415

<210> 18076

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F4

<400> 18076

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acctgcactg aatgccatct tatctataat cttacggaca tctatagcgc aggatatctg 120
ttgctgctga ttatgtattc aagtgtttct gcgagagaaa tcctaattggc caggcattat 180
tagcatcaac tattgctcca catccaaacc aaggagatat tgatgaacct gctagtgcga 240
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aggtcacact ctgatgcttg tctaattccat tgactaggcg atttaccacc ttttgccggc 360
ttcatgatcg aaaaatatct gccatcaagc ttatgaaaat acatctt 407

<210> 18077

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F6

<400> 18077

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cgttgctgct gattatgtat tcacgtgttt ctgcgagaga aatcctaatt gccaggcatt 180
attagcatca actattgctc cacatccaaa ccaaggagat attcatgaac ctgctagtga 240

catgcctttt ggaagtgtac ttctgcaagc tctggattct agatactggc gcgtttagca 300
 ccgaggtcac actcttatgc ttgtctaata aattgactat gtgatatacc accttttgcc 360
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 actttaaa 428

<210> 18078
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-F7
 <400> 18078

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 tgattataca actacttgta tgctagtctt agacactcat gtatttagac atctgcaata 180
 atgcaatatg tcacataact tgattttata ttttggtcat gaggtagggt gcacttggtc 240
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 tgaactggac ttgttgatta catggcccat tttcagaagg tggtgttttc agtgtgaggc 360
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 tccatgt 427

<210> 18079
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-027-Q1-K1-F8
 <400> 18079

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 tatctgttgc tgctgattat gtattcaagt gtttctgcga gagaaatcct aatggccagg 180
 cattattagc atcaactatt gttcacatc caaaccaagg agatattcat gaacctgcta 240
 gtgacatgcc ttttggaagt gtacttttgc aagctctgga ttctagatac tgggtgcgtt 300

gcaccgatgt cacactctga tgcttgtcta atcaaaagac taagtgattt accacctttt 360
gccggtttca tgatt 375

<210> 18080
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-F9

<400> 18080

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acttcattca gactatagct atgtacgata ctaactagtt catgttagaa ttacatgcaa 180
tctctaattt ctctattatc aaacacttgc cagagctggt gaactaagga tacctcgatg 240
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<210> 18081
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G1

<400> 18081

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cgtagggcggc ctgcctcggg ccacggacga ccactccctc cacaacgcct tcagcaccta 180
cggcgagggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt 240
cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300
caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg ggggccgtgg 360
aggcggcggc agcggcaggt acggtggtgg ccgtggaggc ggcggctacg gcagtggcgg 420

<210> 18082
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G10

<400> 18082

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cctaaagcaa catcagatcc acccgggtcc atgtacactc tccagtctcc accaatgcta 120
acctctcacc agatcgatgc agggctatca gacgactaat attatcgaaa gtcacatcc 180
tatgagccaa agactaaacc ttggcggctc aatggtcaga cagacaacat caagtgttc 240
cgcagctgcc ccacagacaa ggatcgacat gtttatctcc ggagactctc cgaatagcgc 300
gtctgatttg agcttaccta atgtccacag cgagcttagc tctagcaact gcaactttga 360
cagcctcctc aactccataa tcaaagtgtg aaagagacga tgcttacttc agcgatgacc 420
tgggatg 427

<210> 18083

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G11

<400> 18083

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ttgggctagg ctttcaggaa atatctgttg ggaatgcaac acctgtgttg tataacatgg 180
taaaacaagg tctcatcagt gaccctgttt tctctttctg gtttaaccga catgctgggtg 240
aaggagaagg tggtgaaatt gtgtttgggt gaatggattc tagtcactac aagggtgattc 300
acacctatgt ccagtcact cagaagggat actggcagtt taacatgggt gatgtcctgg 360
ttgatggaaa gtccactggg ttttgtgctg gtggttgtgc agcaatagca gattc 415

<210> 18084

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G12

<400> 18084

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ctacaccgag cataggatta ggttacgcaa gcatcttgca tggatcatcag cctccaaatg 120
ctgggctggc ttacctcaat ggtccttcac ttattggatc tgctggactg cccaagtgtg 180
aagcaaaata tcctgcttcg ctattcaaac agcagctcgt ggatctaatt gaaaaggctt 240
atggcatgat aagtacagc gtgaagaacg agctaaaccc tctgctcgaa tcgctatac 300
aggatccacg aacttctgac tcgagtatcg cagaacgcaa tcttaatgcc atgggtcatc 360
agaaccaact gacatattgt ctgggcatag tgaaaattct gactagctac ttgcatgtac 420
tgagggcaaa 430

<210> 18085
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-027-Q1-K1-G2
<400> 18085

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caccgctgtg cctgcgcgtg ctgcttcacc gaatcgagtc agaccctgtc cgaatctctg 120
agccaagggga tggcaaccgg tagtgaggcc tccaatgcag ctgaagctgt ggttgactgg 180
cataaacagg acagcaagag gatgctccat gcggtttacc gtgttgggga tctggaccgt 240
acaatcaagt actacacgga atgctttggg atgaaactgc tgaggaaaag ggatgttcc 300
gatgagaagt acaccaacgc ctttcttggc tttgggccag agaacaccaa ctttgcagtt 360
gaatcgacat acaacta 377

<210> 18086
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-027-Q1-K1-E8
<400> 18086

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tgacctagtc agggcagcac agatacaagt ggagatgagg aacacagtcg tgctagagaa 180
 aatgcccgga aagcaaattc atgtcgtagg aaaacaaagg atctctcggc aggtctgcaa 240
 cctaagaaaa tcagtgtggt tgactcaagc cccagagaca aatctccatt cattttacaa 300
 cagagtggca aggtcgtcca aaagaaacac cccgatcaat tgtcagaatc atcagaagat 360
 gagcttgctg gtagaagaac aaagcatcaa actgattcac ctgatgattc tcgtcgaaaa 420
 cagcattccc c 431

<210> 18087
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D4

<400> 18087
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 cagacaccag caacgaagtc ctcgagaatg cctacgtctg ctactgctag atcctcgact 180
 ccaatgtaat aaaccgaccg cgagacggtg aggtcttacg gcttcgggctt cgttaccttc 240
 tactacgaga actacatgct agacgctatc gagaacatga acggcaacga tctc 294

<210> 18088
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D5

<400> 18088
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 caccgaccc gacaaggccc gtcgtctcgg ctacaaggcc aagcagggat atgttgcat 120
 accgtgtccg tgtgaagcgt ggtggcagga agaggcctgt gcccaagggt attgtctatg 180
 gcaagcccaa gcaccagggt atcaccagc tcaagttcca gaggaacaag atgtctgtcg 240
 ctgaggagag agctggacgt aagctcgggt gactgagggt tottaactcc tactgggcga 300
 atgaggatag tacctacaag tactttgaga tcatccttgt ggacgttgcc cacaagcca 360

tcaaaaccga cccgaggatc aactggctat gcaaccctgt gcacaagcac cgtgagc 417

<210> 18089

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D6

<400> 18089

gccaccagca acgattcact aagaactgcc ttcggctcat acggctagac cctagactcc 60

aaagtcatca cctaccgagg aacaaaaagc tattgcggtat tatgctgctt tgcctgatcc 120

gactgaaact acatgctcga cgctatagag aacatgaaca gcaaggacct agactgccgt 180

agcattactc ttaactatga cccaaccatt ggctgt 216

<210> 18090

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D7

<400> 18090

cggacgcgtg ggcggacgcg tgggcgcgcc ggcacccgca cgcattggtgc tgtgcgacga 60

agtggacccc acgcacgcgc gcgctaccgg cgccattacc gtcttgccgg cacggcgcca 120

cggacgcgc ggtggccgcc gccgccgcgc cgccggcgtc cgcgagcggc ggcgacgacg 180

acgacgtctg ggacgagctg cgcgcggagg cgcaggccga cgcggacgcc gagcctctgc 240

tccgcaagtt ctacgccgac ctgcctctgt cgcgcccgtc gctggagggc cgcctcgccg 300

cgcacctgtc ggccaagctc tgcgtccccg gcgcgctgcc gcaggacgcg ctccgggacc 360

tactggccgg cgcgctggcc gcgcgcccg agtccggccg cgccgcgcgc gc 412

<210> 18091

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D8

<400> 18091

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 gcgccacatc gaggagaacg tcaagagcgc cgtcaagagc tgcgtgctga cggtggcgaa 120
 aagaagactc tgagcaccga ctccaccggt ggccctccacg tcgcccgtt ctgcgagaag 180
 gacctgctcc aggagatcga gcgcgaggcg gtgttcgcgt atgccgacga cccctgcagc 240
 gctaactacc cgctgatgaa gaagcttcgc aacgtgctcg tggagcgcgc cctcgacaac 300
 ggcgctgctg agttcaacgc ggagacattc gggttcgcca aggtcgtcca gttcgaggag 360
 gacctgcgcg cggtgctgcc caaggcggtt gaagatgcac gggcggtctg cgag 414

<210> 18092

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D9

<400> 18092

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 ggagatcgct atcagcttcc tcataacgga attatcccta gagaacttgg agtgattgct 120
 aggtacaagg ggcaaaggaa aattgcacat cctggtttcc aaaaccctcg atgggttgat 180
 ggagagcttt tgataataga tggaaagttc atcagagatg gtctgtgat agctttcttt 240
 tactggacat ctaattttca tcgtttagaa ttcttttagac tgttgatgct tcctgaatag 300
 tccacatcta aaaatagtta aaggccattc tgattattgc ataactgcat tcggagtcaa 360
 caggagttgc ctggcatcac attttccgat gacagattct tatg 404

<210> 18093

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E1

<400> 18093

ggaaccacaa aaaggatcaa ggatgaaatt gagcttggca atggcctgcc agatagcaga 60
 agcactcggc aatgtctcca ggcagtaaaa gacgccgggt ttgaggttgt ttgcgagata 120
 aggatcttgc tgaagattct cccttcctt ggtacttgcc cttggatcca agccgattct 180

ccctgagtag cttccgtttg acctctgtgg gacgcatgat taccgcaca atggtcaagg 240
ccctggagta cgttggtatt gctccgcagg gcagtgagag ggtctctaata ttcctggaga 300
aggctgcaga agggctggta gagggcggaa agaaggagat cttcacgcca atgtacttct 360
ttcttggtcg gaagcctctt atggaatgag ctcttggatc accttttcag agagagaacg 420
caagt 425

<210> 18094

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E10

<400> 18094

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acagtgagcc tccaacagag agaataact catcttatct tgagctgaac cttgatgagg 120
tgagacctag catgtctggc ccaaagaggc ctcatgatcg tgtccctttg aaggaaatga 180
aatcagattg gcatgcttgc ctggacaaca aagttgggtt caagggtttt gcagtgcca 240
aggagcagca ggataagggt gtcaaatttg actttcatgg gcagccagca gaaatcaagc 300
atggtagtgt tggtatagca gcaataacta gctgcacaaa cacctcaaat cctagtgtta 360
tgcttgggtg tggtcttgta gctaagaaag cttgcgagtt ggtctctg 408

<210> 18095

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E11

<400> 18095

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gctgccgga ggcccgctcg atccgccgcc gccaaagatga atgacgccga ttagccaag 120
cagatccagc agatggtgcg gttcatccgc caggaggccg acgagaaggc caacgagatc 180
tccgtctccg ccgaggagga attcaacatt gagaagctgc agcttggtga agctgagaaa 240
aagaagatta gacaagagta tgaacgcaaa gagaagcagg ttgaagtacg gaagaaaatt 300

gagtactcta tgcagttgaa tgcttctcgc atcaaagttc ttcaagctca ggatgatcta 360
gtaaacaaaa tgaaagacga tgcgatg 387

<210> 18096
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E12

<400> 18096

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tcggctgtag ccatggacgc cagcggagcc ggtagcatgg ggaagaaggg tgcggccggg 120
cgcatggcag gcattcccag gaagatgtcg gtgacgctgt ccgtcaaggc cgagctgatg 180
ttccacgtcg gccggatcga gcgctacctg aagaagggtcc ggttcgctca acgctgatc 240
actgtcaccg gcgtttacct tgaccgcgtc ctggagtacc tagccgtcga ggttatagag 300
ttggcctgta tcgcggcgaa tgacttcaag atgacgcgca tcatactgag cgacgtgcta 360
ctggcgatcc gcaacgacga ggag 384

<210> 18097
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E2

<400> 18097

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actactacat aacgtctaca tgctcttgcc caagccaagt acaaagatga ttcataatga 120
gacactttgc ttaatatacct cccttgacat tcacgtcgcc ctcagatcct agcattatct 180
cctttatgac atggcatgtg agatgaacga cgaatatgat tacgaactgc taaaattgt 239

<210> 18098
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E3

<400> 18098

ggatgaagccg cgcgcgctgc agtgtccata gccaccgcag gagactgaga tgggggggttt 60
tgtcaagacc cacaagagca atgcgtactt caagcgtttc caggtgaagt tccttgagaa 120
ggcgcgctgg caagacagac tacagggccca ggataaggct gattaaccaa gacaaaaaca 180
agtacaatac acccaaatac agatttggtg tgcgatttac caacaaggac atcacagcac 240
aaatcatctc tgctagtata gcaggtgata tggttcttgc ttctgcttac tcgcatgagt 300
tgccacgata tggctctgaa gttggctctga ccaactatgc agctgcctac tgcactggcc 360
ttctgttggc tcgccgtgtg ctcaagaccc gtggtttaga taaggaatat gagggcaatg 420

<210> 18099

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E4

<400> 18099

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gtcaaagtcc ttgagggtctg cgaactatga agaaaggaat tccacacgtg acagttctta 120
caagaactca ggcaaacctta taatacgagt cagggcagca cagatacaag tggagatgag 180
gaacacagtc gtgctagaga aaatgcccg aaagcaaatt catgtcgtag gaaaacaaag 240
gatctctcgg caggtctgca acctaagaaa atcagtgtctg gtgactcaag cccagagac 300
aaatctccat tcattttaca acagagtggc aaggctcgtcc aaaagaaaca ccccgatcaa 360
ttgtcagaat catcagaaga tgagcttgct ggtagaagaa caaagcatca aactgattca 420
cctgatgatt ctgctgaaa acagcattcc ccgact 456

<210> 18100

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-E5

<400> 18100

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ctttaagcct ttccacgtta atttcatatg acaacgctct cttccaagac ttactacacg 120
gccacgataa tgcttattaa ccaagacaaa aactagtaca atacacccaa atacaaattt 180
cttgtgccat ttaccaacaa cgacatcaca actcaaatca tctctactaa tataacaagt 240
catattcttc ttgcttctgc ttactcgcat taatttccac gatattatct ttaaacttgt 300
cttaccaact atgcaactta ctactacact ggccttctc 339

<210> 18101
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-E6

<400> 18101

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tgtcgtcttg ctgcggcggc aagtgcgggt gcggctccag ctgctcctgc ggcagcggat 120
gcaacggctg cggatatggtg aacctgacgt ggagaccgcc gccaccagca gcgtaagac 180
cacggtcctc gacgcgccga ccaccaaggc cagcgccggc ggcttcgagg cggccaccga 240
ggcgggcggc tgcgactgca acacctgcaa gtgcggcacc agctgcagct gtcctgctg 300
cagctgcaac tgagccggcc cggctcggcg atggcgcacg agagtcgaga ggacgacgac 360
gaggaggcgt ataataaata taatagcggc gttcagtana taagatcctg tcaactgcac 420
ccgtcattat ccatgg 436

<210> 18102
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-E7

<400> 18102

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ttttgtcaag acccacaaga gcaatgcgta cttcaagcct ttccaagtga agttcacttg 120
agaaagcgcg cttgcaagac atactacagg gccaggataa agcttattaa ccaagacaaa 180

tacaagtaca atacacccaa attcagattt gttgtgcat taaccaccaa tgccttcaca 240
acacatatca tctctgctag tttagcaggt gatatggttc ttgcttctgc ttactcgcat 300
gatttgccac gatatggctt ttgaagttgg tctgaccaac tatgcaactg cctactgcac 360
tggccttctg ttggctcgcc gtgtgctcaa gacccctggg ttagataaag aatattaagg 420
caatg 425

<210> 18103
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D3

<400> 18103

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gaaaggatga accagttgct gtggaatgcg gagatatcga tgcattctgat caaggagcca 120
ttccatcgaa cgcgtaggtg ctcgtcgggc tcaagctgtg cgagcgcaag tcgctcgagt 180
tcatggtgga gcttgtcctg ctcgacctac tccttccgct gccagactg gaccaggtgg 240
gctacaaccg gtcgacggct ttcgtgtcac tgcgagcagg ccgtcgctg acccacacct 300
tcggatacat cggcaagcaa gtgtggtacg acagggaggt tacggacttt gatgaacctg 360
agctgatgca cagc 374

<210> 18104
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C11

<400> 18104

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aggccggtat ccaggctcga aacgcgtgct gggagctgca ctgccttgag catggcattc 180
aagctgacgg tcagatgccc ggtgacaaga ccattggggg aggtgatgat gctttcaaca 240
ccttcttcag tgagactggg gctcggaagc acgtgccccg tgctgtttat gctgaccttg 300

aaccactgt catcgatgag gtgagaactg gcacctaccg ccagctatta caccctgagc 360
agctcatcag tgggaaggag gatgcagcca acaactttgc ccgtggtcac tacac 415

<210> 18105
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C3

<400> 18105

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tacacccag ctggcgagcc aattcccacc aacaagaggt acagcgccgc caagatcttc 240
agcagccttg aggtcgctgc cgaggagccc tggatatgta tcgagcagga gtacaccctc 300
cttcagaagg acaccaactg gcccctcggg tggcctattg gcggcttccc tggccctcag 360
ggccttact actgtggaat cggcgcgag aaatcgttcg ggcgtgacat 410

<210> 18106
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C4

<400> 18106

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tatatctccc tagatcaggc tgggaccatc tacatactac atggcaacta aaccaattat 120
tgactatcca gccatttatg aattaagaac aacccaaacg tattccaaaa aagcaaactc 180
atgcacacgg atgagctgac tctgaccta actcaagttc acgagcaata tctcttaaact 240
gtgcataggc atctgtataa gatccacaat gtccgtaacg ctttaaacgc taactgacat 300
tctaacattc acgaaatgta caaggatct 329

<210> 18107
<211> 327
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C5

<400> 18107

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cgctcctcct cgtcccagcc gcagctggtc gcggcgccgg cggtcctggc agcggcgctg 120
ctgctgctag ggctgcgggg gccgggacgg cgtcggcgcc ggtgagctgc ggcgaggtga 180
cgtcgtcggt ggcgccgtgc ctccgggtac cgatgggcag cgcggcgctc ccctccgcgg 240
cgtgctgcag cgggggtgcgc tcgctcaaca gccgcgcgtc gtcggcgccg gaccggcagg 300
ccacctgcaa ctgcctcaag agcatga 327

<210> 18108

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C6

<400> 18108

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ttgctgctcg tactcaacaa ggcgctcgcc gacgacgacc gcgtcaagac ctgcacatct 120
ccaatcgtca gcaactacat ctctttctaa ccacgcaa atcgctacacac atgatgagct 180
cactcttgct ccaaaactaa tagccgaggc acatctttca gaagtccaga gccaaactata 240
gatgatccag actggcctta actatccaaa ggctatcgga catg 284

<210> 18109

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C7

<400> 18109

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cgaaacccca gacctgcgc cgcccttcc cctccgcggc gtcgtcctcg cagtcctctt 120
ccgatccaag atgtataagc tggggagagg aaaccgcgac aaggtgcagc agttcatgac 180

cattaccggc gccagtgaga aggttgcct tcaggcactg aaagctagtg attggcactt 240
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tcttgaagat attttcaaca gatataaaga acctgatgct gatatgataa tgggtgaagg 360
aatatctcaa ttttgcaatg atctacaagt tgatcctcag gatattgtca tgcttgtcat 420
atcatggc 428

<210> 18110
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C8

<400> 18110

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gaaccaccta tttactacat gccaaactaaa ccaattattg acgatccagc cattgttgaa 120
atttaacaag gaaaagggtat tcgaagaatg gaaatctatg cgcagggatg agctgactcg 180
gttccaaaag caagttgagg agcaatatct ctcaaagtgt gagaggcagc tggagaggat 240
ccagaatgcc cggaacgctc gaaaggcgaa cgggcatgct aacatgcaag aaatggacaa 300
ggagctggac acacacaggg cggagcatgg tccgaagact cggcgagtgc ctgaggagg 360
cggtaatgat gacgacgaat acgcagagga catggctgcg gaagacgaag tgatggatga 420
agttctgggc at 432

<210> 18111
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D1

<400> 18111

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ctaaacagat aagcttggac caaggctttc cctatgctca agatattcaa ggatgccatg 120
tcagctccaa cttgcatect ctacgactga tgactaccta tgagagccgc cagaagttga 180
tgccagatcc gacgcccacaa cagcagcagc tcctaaagca cgtctagcac actatgacct 240

cctgtaatga gacctgtgaa cgaccactgg aacctgctaa tgggaagccc aaaacgctcg 300
taccagatgg tgtcacggca gaagttatag cg 332

<210> 18112
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D10

<400> 18112

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ctgagggtcc acttcaagaa cacaaggag acagcctttg cgcttcgcaa gttgtctttg 180
accaaggcta agcgatacct tgaggatgtt attgctcaca agcaggcaat tcccttccgg 240
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ggccgctggc ccgttaaata agccaggttc atcctggatt tgctgaagaa tgctgagagt 360
aacgctgatg tgaaaggctt ggatgtggac aacctctatg tttcacaca 409

<210> 18113
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-D11

<400> 18113

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tggggacgtc cctcaagcac tggaagacaa gtacgggtggc tttttaagcg acaggattgt 120
aaaggattac acagacttgc cttaaagtgtg ctttgagaac ttcggtgaca aggtgaagaa 180
ttggttgacc ttttaacgagc cacagacatt tacaaccttt tcgtacggaa cgggagtttt 240
tgcccctgga cgggtgtcac caagagaaaa atgtgtctca cctattgcta actcactcac 300
cgaaccatac attgtgtggc acaacatcct tcgagcccac gctatgactt gtgacctcta 360
caacaagaat tacaaggg 378

<210> 18114

<211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-D12

 <400> 18114

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 agggactcgc tctggcagct aactacacag cacgcaatgg ccaccacggc gaccgaagcg 120
 gcccgctcgc gcttctcccc tgttcgcgca gccaaagtgg aagctgtgct gtctattgggt 180
 gctcatctaa tcccacaccc aagaaaggct gcaagtggcg gagaagatgc tttctttgcc 240
 aatagcgatg ctggcggagt atttgccatt gcagatggcg tctcgggatg ggcagaaaag 300
 aatgtcaatc cagctctatt ctctogagag ctcatgagaa acagctctaa tttcctcaat 360
 gatgaggcgg tcagtcatga tcctcagatt cttctcatga aagctcatgc t 411

<210> 18115
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-D2

 <400> 18115

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 tcgtaccgac aaggcgcgct ctctctgcta caaggccaag cacggatatg atgccttacc 120
 cgcctccgtt tgaacttttg tggcatgaac acgcctgtgc tcaaagggtg tgtctatggt 180
 aagcctaata tccaagggtg caccatctc aagttccata ggaacaatag gtctgtctct 240
 gactatagag ctggacgtaa actctgtcga ctgagcgatc ttaactccta ctgactgaat 300
 gatgatcgca cctacaacta cttagagatc atgctcgtgg acaataccta ctaagtcatc 360
 aaagctgacc cgaggatcaa ctgactatac aaccctgt 398

<210> 18116
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-C1

<400> 18116

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ggccgctcgc tcctgctggt gccaaaccgca gctggctcgc gccgcggcgg tcctggcagc 120

ggcgctgctg ctgctgggtc tgagggggcc gggacggcat cagcggccgc gagctgccgc 180

caggcgacat cgtcgggtggc gccgtgccta gggtagcga tgggcagcgc ggcgtagccc 240

tccgcggcgt gctgcatcga agtgcgctcg ctcaacagac gtgcgtcgtc ggcggctgac 300

cggcaggcca cctgcaactg gctcacgagc atgaccggac agttcggctg cggcatcagc 360

atggacaact gatgcgacat aacagggacg tgctgctctt acatgtgctt gcccatcagc 420

ccaaccgg 428

<210> 18117

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A5

<400> 18117

cgaattccgg ctacgactca cgcgtacggg ctaggtgaac cttacttatt gttttttaca 60

cgggtgcgagt gatcaaggga ccgtgctacc taacacgagc acagagtccc aatcatgct 120

attgatcagc tctagaaatt aaccgtgtaa aatcaaataa actagggttaa ccttgattgg 180

ccaataatct ctctgttatt atggcctagt tgcaaacaaa gtgacagaaa cattcattcc 240

gtgggtgaatc atgaagaatg agcgcgact gctttcttta ccacctgcga gtgtatcctg 300

ctgcacattg taacagacgt gcatttactg aactaagttt aatactatca ccgttcttg 359

<210> 18118

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A6

<400> 18118

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tctaggggac cattctgttt gacgcctcga gcaccattac tttatctcct gtgaactttc 180
aagggatgcc aaaatataat ggctgctgct tctacatcgg aactcctcaa aagaaggatt 240
actttctttg tgctgaaact cctggtgctg cgaaatcttg ggtatctaca ttacatgcaa 300
ctcagttagt cttacgagct cataaagagg cagtaaattc tttggctggg aatggctctc 360
cagctacatt aggcacagtt gctactgcag ttgctaatgc taatgcaaca gccatggaag 420
ctacc 425

<210> 18119
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A7

<400> 18119
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gggctacctt ggctcgcccc atgcactccg tgccctgctg atgctgtgga ggaaatggcc 120
ctaccattgg ccgctctggg aattttaaga actttcagtg cccgccgggc tattacaatg 180
gtcttgcgtc gttgttcttc aacacaaatg atgacgccat ccgcaatcta ttcagcagtg 240
gcaccgagaa tgagttccac atgtccactc tttttgtgtt cttcactgcg atttactgcc 300
ttggccttgt gacatacggg attgctgttc catctgggtc cttcatccct gttatacttg 360
ctggggctac gtacggggcg atagtgggga cccttcttgg tccaatttca gaccttgatc 420
ctgga 425

<210> 18120
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A8

<400> 18120
gcggcggcgg cggcagcggg tacggaggcc gtggcggcta cacaccggc tactgggcag 60
ccggaaccgg cactactgga agagccaccc ggacgccatc atctcgagca tcgggtcggt 120
tcgggcagca ttcttgggtt cctttgcgac ctgtgcaaag gcttttttgg gag 173

<210> 18121
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-A9

 <400> 18121

 cggaattccc ggcctgacgc cacacatcac taacaccatc tagcacctct aaatatcttg 60
 caataaaggc acgatcgctc ctctacggc caagggcaca tggtcgcgga agcagacgac 120
 ctggcagcaa cactgctgc 139

<210> 18122
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-B1

 <400> 18122

 acgcgatctg cgacgcgcag cctacgtaca ccgtctcgcg gaagctgacg tcatgccggg 60
 tcggggctga catccggtag ccggcgaagc gcgcgcgcgt ctggctcggc accttcgact 120
 agacgcccac accttggccc gctctacaa cgtgagcact cggaccgtgc gccggcctat 180
 caccaggacc aactttcccg ggct 204

<210> 18123
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-027-Q1-K1-B10

 <400> 18123

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 gtatgggtcat gcagcctgct cctgtttcaa atccatttgg gatgcttcca gcaatgcctc 120
 acatgtccat tggaaatggg ggatcttcac cttcagttca atatggaata tcaagtttgc 180
 cggttgtgga gaagcttctt ccaagtagat cattgtccat ggcgtttcct aggcatttgg 240
 cacagagaag gataaaactg ctgccgagaa aatataatcc aatatctgat ggcaagggtc 300

cattctttgc tgatgatgaa gaatctccag caacaccaaa agcagacgct ttntttgtcc 360
ctagagagaa cccatagaat ctggtaatc gtccaattga gcagt 405

<210> 18124
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B11

<400> 18124

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atggacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggacca 120
accaaggttg accgcagcgg agcctatgtc gcaaggcagg ctgccaagag catcgtcgcc 180
agcggccttg ctgcgcgcgc catcgtccag gtgtcttacg ccatcggcgt gcccgagcct 240
ctctccgtgt tcgtcgacac gtacggcacc ggcgcgatcc cgcacaagga gatcctcaag 300
attgtcaagg agaacttcga tttcaggcct ggcgatgatca tcatcaacct tgacctcaag 360
aaaggcggca acgggcgct 379

<210> 18125
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B12

<400> 18125

agaattcgct ggaggcgctt ttttcgaagt cggagagtac acctagtagc aaaagggtcaa 60
gctccacact aggctatgcg tcttgggggg tcttaccttc atgggtaaaa acgagatgcc 120
cgttatcttt ccgtattctg cgtcgcttaa gaaactggac ctgcagtaca ctttctcac 180
cactgaagat cactgtcagc ttatcgctaa atgccccaac ctaatgggtc tcgaggtgag 240
gaatgtgatt ggggatagag gactggaagt tgttgccgat acatgcaaga agctacgaag 300
gctgagaatc gagagggggg acgatgacct cggccaagaa gagcatggag gaatctctca 360
gata 364

<210> 18126
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B3

<400> 18126

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 ggggagagta gagaccacag cgcgcgaggc gaggagaata agctatgggc gcgccgagtg 120
 tcagaaatgg acgtcggaag aggaggatgc gctccgcgcc ggcgtgcgca agcacggcgc 180
 cggcaaattg cggaccatcc agaaggaccc cgagttcagc ccggtcctct cctaccgctc 240
 caacatcgac ctcaaggaca aatggaggaa ttttaagtttc agtgcaagtg gactgggatc 300
 aagtaaaactg cgggttccaa agataactgg accctcatct ttcccatcat ctagctcgca 360
 gcctctgctt cttccagcgg caaacaatt tactgaaact acac 404

<210> 18127
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B4

<400> 18127

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 ttagactgg gaagaatcac gctcgttctt ctataaaagg ctacggagga ggatcgaga 180
 agatgttctt gcaaaagaaa taaggcagat agtcggtgat aaatttacgc accaattagc 240
 aatggagctc atcaaggaat ggtaccttgc ttctcaggcc acaacaggaa gcactggatg 300
 ggatgacgat gatgcttttg ttgcctggaa ggacagtcct gaaaactaca aggggcata 360
 ccaaaagctt agggctcaaa aagtgtctca ttgcgtctct gatcttgctg actccagttc 420
 agatctgca 429

<210> 18128
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B5

<400> 18128

cggaattccg caggccagac agttctcgga ctctgtactct cacacttgga gaatccatct 60
cgtgctagat ggaacatctc cgggctggaa taaacttcag accgggtctc acgatgctgg 120
gagtataagc tatgcccgcc actaagcaca attctacgtc gcttgacaaa cttgcactgc 180
accacaatct gcacacgact gattatcact cacagcttat cactacttgc accaacataa 240
cgattctcgt gctaaggtag gtattcatca tctacctaca gtcattcgga gcgactacat 300
ccatgaagct ccaa 314

<210> 18129

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B6

<400> 18129

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cgtcgtcaag gccatcgaga aggttggcac ccgcaacggc tccacctgca aggtggtaca 120
aagttgcgct gactgcggac agttatgcta gatctttctt atctggtttg ttcggacgat 180
ctccctacat catcttgcac tccaaattgc gtccgatcct ttggatctat ttacgctcca 240
attgatctta gagtcatca tagaatggta cttttctttt gaagccacaa caggcagcac 300
tggaagggat gacgatgatg cttttgttgc ctggaaggac agtcctgaaa actacaaggg 360
gcatatccaa aagcttaagg ctcaaaaagt gtctcattcg ctctctgata tttgtg 416

<210> 18130

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-B7

<400> 18130

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taattgtcac acagaaccaa tcccccttgt cctgcaggct gtcattgacc accttgtntc 120
ctttggcggt taataccaga aagcaggaaa ccaaatagtg tcgtcatcaa cttcttcgat 180
gaggatgaac attcgcagcc ctacttcaag cctccccatc ttgacaaccc catttgcact 240
cttctgctgt ctgaaaccac gatggcattt ggcaggtcac ttgtcactga cagcaacggg 300
aactacaaag gacctctcac actttcacta aagcaagggt ccttactagt gatgogtggg 360

<210> 18131

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B9

<400> 18131

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tcaggaataa cagaggacgg gaagaattgg agagttgcag ctgacattaa gaaaagaact 120
tgtggatgtg gacagtggca catctatgga aaaccttgca ctcatgctat agctatatc 180
gtgaaactta caaaccttaa cattgaggac tttgaggatg actactattc aattgagagg 240
ttcataatgg cttatcaatt tgtggtcgct ccgatgggtg acaagactca atggccaaaa 300
tttgaccctg agtttaaaat ggttccttca aagctagaaa ggctgctgg tagaccaaga 360
aagaaaagaa tcaaggctag tgcaaaaagca agaaaaagac gcccatatca gtgcaaaacg 420
cgtttttc 427

<210> 18132

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-027-Q1-K1-A4

<400> 18132

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ttcgacttcc cgcgcttccct cgacctcatg cgcgcccata tcaagcccga gcccccttcg 120
accgcccgt cgcgcagcc ttccgcgtcc tcgacaagga cggctccggc accgtcgccg 180
tcgcccacct ccgccacgtc ctcacctcca tcggcgagaa gctcgaggcc cagcagttcg 240

acgagtggat ccgcgaggtc gacgtcgcgc ccgacggcac catccgctac gacgacttca 300
 tcctccgcat cgtcgccaaa tgatcccgtc ccttctccct cgagtctccg attcgccgat 360
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 ttatatt 426

<210> 18133
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G6

<400> 18133

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 gatgaagtcc caggaggaaa tttttcatgg tctaattgag gatattcaca aggccacaga 180
 ggataaagaa aagcagtttg agaagttggt gcaggaagag cgctcaaagg ccagacgctt 240
 tgatgttgat tctggaacta tgaaagatcg tcagctaagg aaggaatatg tgcagaagtt 300
 cattgattgc caagtcaagg atgtggcaga gtttgaagtt gagcgagatg agctgatcaa 360
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 ggagaaggag tttgacgcag ccctgacg 448

<210> 18134
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G7

<400> 18134

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 agggtttcac gatggaggcc gaggcggcgg ccaagagggc gcgggagggc ggtgaggacg 120
 ccaccgcgcc ggtggcgggtg gccgaggcgg cggtcgccgg tgctggcgag caggcgggga 180
 tctccgccgt catcccaaga tggttctccg agatcagccc catgtggccc ggtgaggcgc 240
 actccttgaa ggtggagaaa gtgctgttcc aaggcaagtc agactaccaa aatgtgatgg 300

tttttcaatc cttcacgtac gggaagggtgc ttgtcctcga cggagttatt caggtgacag 360
 aaaaggatga gtgttcctac caagagatga ttacttaact ggcctt 406

<210> 18135
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G8

<400> 18135

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 agggtaacac gaatgaagcc tgagtggatg ccaagaggac tcattagagc gatctggaca 120
 ca 122

<210> 18136
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H10

<400> 18136

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 gaagaagcgc ggtctcacc cagaggaggt gcttctgctg gagaggagct tctaggagga 120
 gaacaagctg gagccggagc gcaagacgga gctggcgcg c aagctgggcc tgcagcctcg 180
 ccagggtggcc gtctgggttc agaaccgccg cgcccggtgg aagaccaagc agctcgagcg 240
 cgacttcgac cgctcaag 259

<210> 18137
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-H11

<400> 18137

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aggcgagagt acctgttgcg cgcctgagggc ggtgcaatgt cgtcttcctg cataccgacc 120
 ggctgcggc tggacctgga catggtgaag gcggcgggcgt cgccggtggg cgcgcaactcg 180
 tcgccgctgc gcccgggcgca ctactcgtcg ccgctcgtcga cgctgtcgtc ggaggcggtcc 240
 aacgcctcgt catcgtcggc gacgtcgggtg tcgctcaagc gggctcgcg cccgcggaag 300
 cggcccaacc aggcgtacaa cgaggccgnc gcgctgctcg cgtccatcca cccctccgtg 360
 ttccccgtga acaagagccc caagacggcg ccgncgcgcc cgccgcagct ctccgtgctg 420
 gcg 423

<210> 18138
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-H2
 <400> 18138

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 gagcggggca acagcaagtg gatgcgggtg gacaacgtgc gtagecgcggt cccctcgtg 120
 tccttcctgg agcacggaag ctgcaacagg acgcgggggg cgccggcctt gtcataagg 180
 tccgtcgtgc aagagccggt cgaggacgag gacatgcagc cgggcggcgg cgctcgggcc 240
 acggccacgg tcacgacggc ggcgtgcggc ctgccggccg agccgacggt gcgcctcggt 300
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 cagatgggga gctgcaagtt caccagcgc 389

<210> 18139
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-H3
 <400> 18139

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 gaaaggtgc gcagtggttt acagtgaaac ggcagcatgc gattcttatt ctgcgggaca 180

ccctttacta tgggaagtgc aagcggtact gtaagccagg aaacgaatgg cataactgct 240
 attcagacga gcactacttg ccaaccctct ttaacatggg tgatccgact ggaatctcga 300
 actgggtcggg gacgcatgtc gactgggtccg aagggaagtg gcatcccaaa gtctacaggg 360
 ctgcggaacac aagcttcgat ctgctcaagg acatcgcgtc catcgacgag agcgtccacg 420
 ttagcagcaa cggaagcat gtcgcgc 447

<210> 18140
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-H4

<400> 18140
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 tgcagcggag caacggcaag tggatgcggg tggacaacgt gcgtagcgcg gtccccctcg 120
 tgtccttcct ggagcacgga agctgcaaca ggacgcgggg ggccgccgcc ttgctcataa 180
 ggtccgtcgt gcaagagccg gtcgaggacg aggacatgca gccgggcggc ggcgctcggg 240
 ccacggccac ggccacgacg gcggcgtgcg gcctgccggc cgagccgacg gtgcgcctcg 300
 tcggcccggg agggaggtgc gtggacgtgc cttacggcta ctactacaac ggcaaccagg 360
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 acggcaccat ncgggtccaac ggcaaatgcc tga 453

<210> 18141
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H6

<400> 18141
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 ggggccgcgt tcccgctga gaggaagcac gggctgtcgt gcatgattcg ctggagacct 120
 tcctggacct cggaaactgt aacaggaccg ctggggcgcc ggccttgctc atactgtcca 180
 tagtgcaaca gccgatcgag gacgacgaca tgcagccgag cagtagcact cgggccacgg 240

acattgtcac gacggcggcg tagcggctgc cggacgagcc gacggtgcgc ctgctctgcc 300
 cggaaggtaa gtgcgtggac gttccttacg gctactacta caacggcaac caaattcaga 360
 tgtggagc 368

<210> 18142
 <211> 246
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-H7
 <400> 18142

agccggaaag ctctcaacc tgcactcctc gccagcaagc ttacttcttg aggctccggg 60
 gagcagcgcc ggtgctaggc caccaggtca agcaaagccc ttagttccgc cgacgtacga 120
 agaagcttgc tggcacggct ggttcgaccg cgacatggag acaatcgctt tcgaatcaaa 180
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 cagtcg 246

<210> 18143
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-H9
 <400> 18143

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 acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgcccc 180
 tcaacttcgc caccgcgag cacaagagcc ccgagcacct cgtccgcaac ccgtttggtc 240
 aggttccagc tctgcaggat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
 acgctgctcg caaaaacaag ccagagctgt tgaaggaagg aaaccttgaa gaggcaacaa 360
 tggatgatgt ttggat 376

<210> 18144
 <211> 334

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-A1

 <400> 18144

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 acaaaacacg aagagagagt gccagttcat gctgatggat cacttcccgg aataaaccga 120
 tgtaaaataa aataaactag gttaaccttg attggccaat aatctctctg tttttatggc 180
 ctagttgcaa acaaagtgac agaagcattc attccgtggt gaatcatgaa gaatgagcgc 240
 cgactgcttt ctttaccacc tgcgagtgta tcctgctgca cattgtaaca gacgtgcatt 300
 tactgaacta agtttaatac tatcacogtt cttg 334

<210> 18145
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-A11

 <400> 18145

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 ctgtttttcca accagacatg gccactggct ccgaacctga acgctatgtc tttaaaaatc 120
 tgcaaccgac gactaataac atcacacagc gacagattct aatagggcca tgactctcgt 180
 ccagatgacg tatatccaat tacacatgcc acgctgctga tacgatctac gagaaggcct 240
 cggacacgat accgaatggg accatgtcga attattgctg catactgata aatgctgtaa 300
 ttttcctggg caccttcacc agccgcggca gcggcagc 338

<210> 18146
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-027-Q1-K1-A12

 <400> 18146

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 agggccgcgt cgacggtcgt ggggagggag ggctcgccga ggcaggagta caccgtgaca 120

ggcgtgaagc gggcgggcgg cgggcgcctg gtggcctgcc acgcggagcc gtacgcgtac 180
gccgtgttcg cgtgccactt gacgcagcag acgcgggcgt actcgggtgc gatgctgggc 240
agggacggca cggccgtgga cgctgtcgcg gtgtgccacg ccgacacggt cggctggaac 300
cccaagcacg tcgtctggac ccgcggcggc tgagagtggg cgccgtttgc atgcactggg 360
catg 364

<210> 18147
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-027-Q1-K1-A2

<400> 18147
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aactggggat attgaagaga ttggagagaa ctcttatgat gccatttcca tgtccgtgaa 180
gaaccaataa gtttctctgtg gcctgaattg ggtggtttcc atagcatgtg cacgggggttt 240
gggtggaatg cctacagatc gactgtgtca agctttcttg attccgtaga aacatgtttt 300
gtttgacctc atcatagagg atctccccctt ttatcgtaca aagattgtga tatgttctta 360
gcttctttct acttgaataa gaggatttct gcagaccctt ttctctc 406

<210> 18148
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-A3

<400> 18148
taagagactg tcagtgcacc gtcgagctat tacaatggtc ttgcgtcagt gttcttcaac 60
acaaatgatg acgccatccg caatctattc agcactggca ccgagaatga gttccacatg 120
tccactctat ttgtgttctt cactgcgatt tactgccttg gccttgagac atacggtatt 180
gctgttccat ctggactctt catccctgtt atacttgctg gggctacgta cgggcgcata 240

gtggggaccc ttcttgggtcc aatttcagac cttgatcctg gact

284

<210> 18149

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G5

<400> 18149

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accttaataa tgatcaagcc tgacgggttc caaaggggcc taattggtaa aaccataagc 120

cgttttaaaa aaaagggttt ttacttaaag gccttaaacc tgtgaacctt gaaaaggcct 180

ttgctgagaa gcactacgcc gatctcgctt tcaagccctt ctttcagggc ctcgtggact 240

acatcatctc tggccctgtg gtggccatgg tctgggaggg caagagcgtc gtcacaactg 300

gcgcgaagat cattggcgcc accaaccccc tggcttttga gcccggcacc atccgtggcg 360

actttgctgt cgacattggc a 381

<210> 18150

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-026-Q1-K1-E7

<400> 18150

cacggggttg cgggctagaa gctcgtctgt ttgaagcaaa aggtgaatgg gctgaagctg 60

aaagagccta cgcgctgata ctggaaaaca atccatttga ccagattgtc cacaagagga 120

aaattgctat cgcaaaagca caaggtggta tgcgatagat gattgattat ctcaataagt 180

atctggaatt gtttatggct gatcatgatg cttggagaga acttgctgaa acatacagtt 240

ccttacaaat gtacaagcaa gctgcctttt gttatgagga gctaataatta gcccaaccaa 300

ctattccact atatcatata gctacgctg aagttctgta cactatgggt ggcttgga 360

atctncaaac agctaagaag tattatgca 389

<210> 18151

<211> 212

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-E9

 <400> 18151

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 aaggacgaca gtggctacgg cgacgagcgc cggcgcgagc tgcacgcgtt cgacgacacg 120
 aagctggggg tgaaaggcct ggtggactcc tgcgtcaagt acatcccgtg catcttnac 180
 caaccgcctg aagccctgag ccgacataat tt 212

<210> 18152
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-F1

 <400> 18152

 tcgccgacgc atgggctgga aaatatgatac acattgatga tatgatacat acgacacttt 60
 gcttggacgg gggaactggt actcagatta tgactgggtg atttctaact gacaaacagg 120
 catcttatgg ctggatgttc aatctcaact gatgggcaca tttctacacg tatgatgtag 180
 ggttgcactc tggctctaca gctt 204

<210> 18153
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-F10

 <400> 18153

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 tgagaagcgt atcaccgagc ttgtgaaggt tggcaaggac aagcgcgctc tgaagcttgc 120
 caagagaaag cttggaactc acaagagggc aaagaagaag agagaggaga tgatgggcgt 180
 cctcaggaag atgagatcgg ctggtacgca cactgacaag aagaaataaa gcatttcaag 240
 ttcattgaatg tggcagccag agattatcaa ctgtgttttt tccctacctc tagaaactag 300

acatggcaaa gtatTTTTga ccgaaacatt ggttggtagt aatgtattga accacctcgt 360
 ggtatTTTgc cccaacttcc aatgcatcaa tggTTTgtt 399

<210> 18154
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-F12
 <400> 18154

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 agggtagact catgttggat atgtgctaac tcgcaaaga aactcaggtg cccacacaca 120
 gtgctagggtt tgctattctt cacagttcta atTTTtagca tTTaaccaaa gcgcgtttgt 180
 ctatccttaa aaggagtgtg ttttccaatg cttgaacttt tgtaataagg gtgtgctaca 240
 tcaaatccag cgtgtttagg atactgctac atacatgaag gtgagcttta ggattgtttc 300
 cttaaagcct cctaaaaatt ggcattagga atTTTtagag atgctgacat accttagatt 360
 tttctctttt tttggggaac attcttgatc aaata 395

<210> 18155
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-F2
 <400> 18155

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 actggccgtg gcgtgcgcgc tggcgctcgg cgccatggcg cagctgtcgc cgacgttcta 120
 cgacgcgagc tgccccagcc tgcaagccat cgtgcgggccc gggatggccg ncnncgtgca 180
 gcaggagccg cggatggggg coctcatcct tcggcct 217

<210> 18156
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-F4

<400> 18156

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cggcaggtac ggctacggcc gcgagtcgaa ccccatgcgg acgcgccccg acgagggaga 120

gttcggctcc gggtagggcc gaccccgagg ccccgccggg ggcaggcgcg gcagtagcta 180

cggcgacgcg gcgggttacc agcagcggta cggcaacgac gaggagttcg gggacggagc 240

catggatcag aacacgaacg gcgccttcca ggaggaagca ggccaaaacg gacgacgata 300

cactccatga gcttgcacgc tgtgtcatgc gtcagagata cactcagtcg tcgtcgtgtg 360

ttgctagcgt gggtactatc gtgtgctcca tctccgagta atctcccatg ggtcgatgcg 420

attgagtact tgtaacttaa tcgtgggcag aa 452

<210> 18157

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F5

<400> 18157

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catgggacga cttactagtgc cacgtggtcg agccgacgga gaagagtgga ccacgccgtc 120

tggccccgga gcctcagctg gtacagggag gccaccgagg agtactgccg gcgaatgcat 180

cggctgacgc gcgagctgtt ctagcaactg tcgacggggc ctgggctcta cgggagcccc 240

atggcggacg cattcgggg 259

<210> 18158

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F6

<400> 18158

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taccattcat gtgatgttgg cacttgggtgc attctgtctt ttcgtgtatt gcagtttttg 120

gacttctggc tttccttcat ggctgtcgtg ggtacgttca tatatatggc tacaattgat 180

gaagtttcaa agagagcaat gcatactgct gtatttatcc tcacggctct tttagctgcg 240
actggtgcaa caagatctgc aaatattgga attgttattg ccattgggtc tgttggcctg 300
cttatggggt ggctactgga gttctctaca gcacgaaggt ttatatgctg gccctcacga 360
attaacctta atatgcctca aagatggcca aaccttagaa ctttgttcca gattactctg 420
gagatggtga acaaa 435

<210> 18159
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-F7
<400> 18159

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gcaccccgctg cacaagctcc tcctgcgcga ctaccgtgac accatgaaca tcaactccaa 120
cgcgcgccag atgctcgtca acgcccggcg catcttcgag accaccgtct tcccgcgcca 180
gtacgcgttc gagatgtcct ccgtcatcta caaggactgg aacttcacag agcaggctct 240
ccctgacgac ctaatcaaga gaggcattgg ggtcgcagac ccgtcgagcc cgtacaaggt 300
acggctgctg gtggaggact acccgtaacg gtcggacggg ctggccatct ggcacgccat 360
cgagcagtgg gtgacggagt acctcgccgt ctactacccc aacgacggcg tgctgcggggc 420
gga 423

<210> 18160
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 18160

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atcattggat aactgagga agactagacc tgataaagag ctcaaagaaa agctgagaaa 120
gtcaagccag aaagagataa ctctcaagga tgacattcca ttgagggata gggctgagct 180

gtatgaaacg tacctgatgt tctgcatcac tggggagact actaatgtat catttggaac 240
agctatctct acaaagaaag atgattcaga gtttttaatg ctaaagcaat tgggtgacat 300
acttggttta actcgcaaag aagctcaaga tgttcacatt aagtttgcag agaaagcttt 360
tgtgcaacaa gcggaagtaa ttcttgctga tgggaaatta acagaggcta aggctgacca 420
gcttgctaag attcanaagc aggtc 445

<210> 18161

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F9

<400> 18161

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ggaaggggga cgcgaggaa gatggggctc gcgttcggga agctcttcag ccggctcttc 120
gccaagaagg agatgcggat cctcatggtc ggctcgcag ccgccgtaa aaccaccatc 180
ctctacaagc tcaagctcgg cgagatcgtc accaccatcc ccaccatcgg tttcaatgtt 240
gaaactgttg agtacaagaa cattagcttc actgtcttgg atgtcggggg tcaaga 296

<210> 18162

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G1

<400> 18162

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cagcgtttcc acggcactta aggtcaaca ttttaaggaa actccgctgt gctgaaccca 120
agcactttga ttgatggaat gctgaaaaaa aaacatgcgt gtggcccatg aaagcatggc 180
aaggcctccc agaggttgag aacgtgtctc cagaaactct gtatcatctt ggtatactga 240
tcgatcttgg ttgaatctaa tcttctgtta ccgaaaaatt ctgcggctgt cgggctcgaa 300
tctgtagacg gctctggcaa ggagtcccc gttgctgggt tggttaattc tttgttgggc 360
gatcgatgaa tgct 374

<210> 18163
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G10

<400> 18163

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tttctgtatg agaattgtat tgattgcatt gacagtgaag ctgttgatga tgcattgggt 120
gtggatcatc atttgggtga ggcggattgt cttcttactg gtgggccagt cgcattcatac 180
aactcagaaa acatagcaca gctcattgct gcctctgttg cggcacgggg agttcttttt 240
ggaaatgctc atgtcacacc atcaagggtg catacaatcc ggagcccgaa gctctggcaa 300
actggtcaat catcttgatt caataagggc cacattctga aaggaagatt tgattggtca 360
aagacctgtg ggttttggaa ctctgctgac ttggtcacag aatttaaacc attggagag 419
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<210> 18164
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-G2

<400> 18164

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gcggcaatgc atcggcgccg gtgtgcagtt tctgaggaa accaccaag aacatccgga 120
agcgcgccgc cgcgcgccgc ggtctgatg acgacgacga cggcgccgga ggcgccctcg 180
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ctgt 424
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<210> 18165
 <211> 159
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-G3
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 tgactaatgc atcagcgccg atgcgcaagc tcctgagcaa accaccaat aacatcctga 120
 agcaaccccg ccgcgcccac ggcgtctgac gacgacgac 159

<210> 18166
 <211> 200
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-G4
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 actcccagca ggaaatgatg catgcgccaa ctgaggatat tcacaaggcc acagaggaca 120
 aagaaaagca gcctgagaag cagatgcagg aagagcgctc aaaggccaga cgcttcgatg 180
 atgatactgg aactatgaaa 200

<210> 18167
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-E6
 <400> 18167
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 gtcgaccatt catgtgacct cagaggacgg cttcagctat gcaagctacg aggtcatggg 120
 cttcaacccg ggctctttct cttatgggtga cctgggttaag agggtgctga ggtgctttgg 180
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 gtttggtggc ttgtctatct atcagagctt cactgttacg gncgaaacga cccatgggtc 360
 gccgagggtca ggtctgcatg acntcgtgg tgacattgtc aagaatcgct canagagtga 420

tgctccctgg gaagctgat

439

<210> 18168

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C9

<400> 18168

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agctggttca gcttcgtcga catgtgcgcg ctccgcgtcg ccgtcttctc gcagactgag 120

atgactgatg ttcattg 136

<210> 18169

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D1

<400> 18169

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caagctgcaa ttgcgtatag gttcagaaag gacaatgaga aagcaaaaga tgcttttgag 120

aaggcctcaa aaggacagga aatgatctcc tcaccatggg acgctgctaa gcatatggaa 180

tctgctgctg ctttagcaaa ggagcttggg cgctggaatg aagtatctga tttctatcac 240

agagcttcag aattataccg tgaatgtgg 269

<210> 18170

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D10

<400> 18170

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tatggatgtc gtgcaatcac cttgtggctg gcctttggaa ttcgagaaga aacagcagga 120

gatcattgac ctgtggcatg gatgcaacgt ttccttggtc cacaggactt actttttcct 180

gctgttcaaa ggggacccag cgcacgcat ttacatggaa gtggagctta ggaggttata 240
gtttctcaag aacacatact ccaacggaag catggggat gatatggtgg caggcagctt 300
gagcacttct ttggtttcaa gtgcaaagaa actgcaacgc gagagggaga tgctctgcaa 360
gcagatgcag aagcggctga cgatccagga acgggagagc ctgtacacca agt 413

<210> 18171
<211> 391
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-026-Q1-K1-D11
<400> 18171

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taccgaattt gcttcttact tccattactg tcgctcacta cgctttgaag atccaccaga 180
ctatcaatac ctgaagagaa tgttcaaaaa accttttatt ccggaaaggt ttcaagttga 240
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cacgtgcaat tgctccagca gtaggacaaa gctctgggat ggctcctgtg gcaaacaaca 360
atagacattc angcactgaa aagggaagga g 391

<210> 18172
<211> 132
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-D12
<400> 18172

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actggtgttt tgtaaactat cactgggctc acgattattg aactacagac aaggcagccc 120
gtgacaattt tt 132

<210> 18173
<211> 393
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-D2
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 cgctgccaca ccaacaaatc tcaagattat tgacctctac gtgggttttg cggttgccac 180
 tggccttatt caggttgctt acatgggatt ggttgggtcg tttcccttca actccttcct 240
 ctgaggagtc ctttcatgca taggaactgc agttcttgct gtttgcctcc gcattcaagt 300
 gaacaaagac aacaaagaat tcaaggacct tcntcagaa agggcctttg ctgatttcgt 360
 cctatgcaat ctggtgactc acctggtgat cat 393
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 tcacggtcac ggtggccgcc aagctggtca cgggtggagg gcccgcggc aagctcacc 180
 gcaacttcaa gcacctgaac ctcgactttc agctgcaaga ggccggccgc aagctcaagg 240
 tggacgcctg gttcggcacc cggcgtagca tggctcgcat ccggaccggc ctcttccaag 300
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 gccac 366
 <210> 18175
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-D4

<400> 18175

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ttggaatttc tggagatgca ggaagagctt atcaaggaag aggagaaaag gcaagagaaa 180
gaagacaagg caaaactgga ggagccaaag gctactgaag aagatttggc tttgaaggaa 240
atgactgagc ctactgttag ggagaaagag gaactaaaga aagcaaaaac ccacgataag 300
aaagagcagc tttgtaatat cagtcaagca ttggctgtgc ttgcatctgt ntcttctgtt 360
accaaagagc gancagagtt tttaagccct gtcaac 396

<210> 18176

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D5

<400> 18176

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agtaggcacc gggcaagatg aagacgatcc tggcgctctga gacgatggac atcccggagg 120
gcgtcacggt cacggtggcc gccaaagctgg tcacggtgga ggggccccgc ggcaagctca 180
cccgcaactt caagcacctc aacctcgact tccagctgca ggaggccggc cgcaagctca 240
aagtggacgc ctg 253

<210> 18177

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D6

<400> 18177

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gccagctggt tcagctcgag gagaccaatg ggaaaaatac atcctactca ccacagactg 120
tgtttgtatc acgtgcaa atgttcaggat gaaagggagc tcaagaagca gaagcgggaag 180
caatccaaca gagagtccgc tcgcagatcc cggtgctgca aacaggctga gtgagaggag 240

cttgggcaac gtgtgagggc tctgaggtcg gagaactcct cgctcagggc cgagctcgag 300
 cggatcagaa aggagtacga acagctactt tcacagaacg ctttccctaa gggaaaagct 360
 tgggggctgc cagtagtgat tcgctttctg atatgaacga acagaacgac 410

<210> 18178
 <211> 233
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-D7
 <400> 18178

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 gcaagtacac ggaggtcaag cccgccctga ccaacatggt ctcggccacc aagctcatcc 180
 gcaccagct tggcagcgcg aaatgaaggc ggttgatagc tccatgggtct gat 233

<210> 18179
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-D8
 <400> 18179

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 acgcgcgcac aaccaccgtt ttccgtcacc cgctgctcgg agatttcgag gtgctgacat 120
 atatagatct gatgttcaca ttcagagtgg acagtggaag cttgcttcca gtgatggcat 180
 tggcgtgccca gttgccatgc cagctgtttc tatgcatgat tgtgtgctcg atcagtttct 240
 gcacagatat gatgcctgat gccaacaccg tttcttcgat tccaggtagc ggtggatgca 300
 gacgacgccg agatcgagga gcggatcatg cagcacctgg ccgncgncgt cgncattcgc 360
 cggtcgcacc ggcacg 376

<210> 18180
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-D9

<400> 18180

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gggaacctct gtcgaggagg gaggggaagg gaagcaatgg cggccaacgg aggcgggtac 120
cgggcggagg acgactacga ctacctcttc aagtggtgac tcacggcgga ctccggcgtc 180
ggcaagtcca acctcctctc ccgcttcacc aagaacgagt tcagcctcga gtccaagtcc 240
actatcggcg tcgagtttgc caccgcgagt ctccaagtcg acggcaaggt catc 294

<210> 18181

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-E10

<400> 18181

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aaaagtctga cagagaggat gcattgtact ataaaaaatg aactaaagag aagacagtcc 120
atgtggaatt ctgtacactg ggaactggtg gagcctgctg ttagtatcag aactttgagg 180
gctcgcatga ttggcctcga taagaatgac ctggataaag cttttatata gcttacactt 240
gagtttggtt ccaaaccgaa atttggaagc ctttattcaa aaggggccat tgtgtctgga 300
gaacaatcga aaggaggact tgggaaagac atttgggtgg ttgaaaaggc ctttttttaa 360
cccggagcat attggcctgt atgccgaaga attacactgg taccatatct gggttt 415

<210> 18182

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-E11

<400> 18182

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ggcgtccaag gcggaggtgt tcgctgcac cgtcggccgc aagcccagca aggccaaagta 120
ctacctcgac gacgcggcgg aagtgggtgag gctgatgcaa gggctctcct acgtctcata 180

agagctggcg cttgcgaacc agcgggatga agacgaagac tctcttttgg acgacgtgtg 240
 ggaataagaa agaaccttcc ctttccgtgc tgcttctgcg gtaatgtctg gttgtgttgt 300
 tggctcggct ggaactttcg cccaataatt taagggtgta aatgagggat gcttt 355

<210> 18183
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-E2
 <400> 18183

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 accattgatg tgagcccaga cgacggattt agctatgcaa gctacgacgt catgggcttg 120
 aaccgggact ctttctctta tggtgacctc cctaagaggg tgctgacgtg ctttgttcca 180
 actgagttct ctgttgccgt gaccatcttc 210

<210> 18184
 <211> 114
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-E3
 <400> 18184

agcatacaga cgaataatct cttcttcacc tcactaacac cagctagcaa ctctttctct 60
 cgtgcaataa tggccgctcg ctctactgc tcccagccgc agctggtcgc ggcg 114

<210> 18185
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-E4
 <400> 18185

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 ctctgatca gccgccaggg caagggtgagg ctaccaagt ggtattctcc ttacaccag 180

aaagagagga ccaaggtcat tcgcgaactc agtggactca ttcttacacg agggcccaaa 240
ctctgcaatt ttgttgagtg gagagggttac aaggctgtat accggaggta tgctagcctg 300
tattttctgca tgtgcattga tgccgaagac aatgagcttg aagtccttga gatcatccat 360
catttcgtcg agatactgga ccgctatctt tgcaagtgtat gtgagttgga tttgatattc 420
aattttcata aggcctacta catactggat gagattc 457

<210> 18186

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-E5

<400> 18186

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gcgacacgag ctgagtgagt gccctgcaag cccaagctcg tgacagagat aggacttcag 120
ctcgactcgc gcggtcgcct tgctgtctgc acacgagccg tcgccaactc gatcctcacc 180
ggtgacctct accgcagctc atatcattct gttcttctgc ttcattctac tgttaatttc 240
ctgccaattt aatcccaccg gccatcgctc tctgaacca aagccatggc gcaagctgct 300
taaggctcca gcaagatcga caccaaagc 329

<210> 18187

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C7

<400> 18187

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ggtcgtcttg cctgcttctc ccaagcttcc acggccttcg ctccacgctt ctccctcccg 120
tcccgaaccc agcccccgct acacctgcgt ctccgcggct cccccaaccg tcgccgtggc 180
atctcaactc ctgcttctc cgccgcgtcc ccggaagtcg agaaagagtc ctgcacctcg 240
tctcgcgcgc aggaatctct gtctgtctgc gcggacagtg tgaagtgct caaggtggca 300
gccaagacga ggaaagtacc tgccccggaa attctctcgg cgctgtccaa gatcaagaag 360

gcaaaaactcg acacgtcggc attctttgag acactcggtg gtaccgagtc 410

<210> 18188

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A6

<400> 18188

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ctggagagca agggggtggc gttccccaag agccagccga tgcgggtcta ctccagcctg 120

tggaaacgcg acgactgggc gacgcatggc gggcggtca agaccgactg gtcccacgcc 180

cccttctccg cctcctaccg cgggttcaag gccgacgctt gcgtcgacgt caaggggcgt 240

cggaccgcgt gcggcgccac cgtcggcacc gatggcaccg gcgccccgc ctacgtcggc 300

ggcgccgggg actggtacaa ccaggaacct gacc 334

<210> 18189

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A7

<400> 18189

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taagaaggaa ggccccaagt ccctgttcaa ggggtgctgg gctaacattc ttcgtgccat 120

tgctggcgct ggtgtgcttt ctggctacga ccagctccag atcctcttct tcggaaagaa 180

gtacggctcc ggcggtgctt aaatggagaa aaatgatgac gaacaagagc agttcgctcc 240

cgggtccaacc cagtcaggat ctggtcaagg ttttggtctt cattatgaag aaattaatta 300

tttattgaag aaaatttttt caacattccg tttgggccga aaccttggtc ttaaaa 356

<210> 18190

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A8

<400> 18190

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agaatttcta tggttgatgc tgagagaagg ttgctggcaa atgctctaca agacatggac 120
aatcagcatt ttattttgct atctgatagt tgtgtacctt tgcacaattt tgactatgta 180
tatgactacc tgatgggtgc aaatctcagt tttattgact gcttttatga tcctggaccg 240
catggaaatt ttagatattc aaagaatatg ttacctgaag tcacagaggc tgattttagg 300
aagggttcac agtggttctc agttaaacgc caacatgcgt tgatgatcat 350

<210> 18191

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-026-Q1-K1-B1

<400> 18191

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tgctctgggc ctcaagaatg gctgtggtgt gaatcttggt gtggaaatgc caaaaagca 120
agagcaaaga ccattgatct atgcaacaat ccaatgacaa aggagccaaa gttcaggggt 180
gctagaagaa tagttccgga gtggactggg cttgacagtg aagcacggca gttcactgca 240
cgaatcttgg tgatgatgt cgagcctgca gatgccacac ctncgccatc ggaagcaccg 300
aagcctgaag atgatcagga tgtgaaagat gagctatgat cgcaagatgt ttccaggctt 360
ggtcttactg aatgaaaagt tggtgactcg acagtcac 399

<210> 18192

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-B11

<400> 18192

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cagggagagt gatccgctgg gccggcgggc tccggaccgc gactctttcg cgcccttcg 120

cagaaggcta catccgtcac cacctactcc gacctacaag atcggcgata cgtcgatgta 180
atgtgaacgg cgccgtcaca aagggatgcc gcacaagttc taccaccgac gcaccggtcg 240
cgtctggaac gtcaccaagc gcgccatcgg cgtcgaagtc aacaagcaat tcaatgggcc 300
cattatcagg aaacctatcc ctgtccctat tgaaca 336

<210> 18193
<211> 151
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-B4
<400> 18193

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gtcatcactg acggtgtgtg gaggttgggt tcatatatat gcttgtaatg ttagctgggt 120
tgaggtgtgg actacgagag tagttttgtt c 151

<210> 18194
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-026-Q1-K1-B6
<400> 18194

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gcgccggacg ggctgtggga catgcagacc gactacgcgc agtgggtgaa gagcaagacc 120
ttccgccccg gcgacaccat cacgttcacg tactcgccgg agctgcacga cgtggtggag 180
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ggccactgcg gcaacggcat gaagatccgc gtcgacgtcg tcgccgccgc ggcctcgccg 360
tccgcgccgg gccccgncgc tgccgncgcg gcgccgccga cgacctcgtc gccctgcac 420
gtcggagtcg 430

<210> 18195
<211> 314

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-B8

 <400> 18195

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 gccacgcgcc tggcgctccg cgcctgcgcg ggcgagaagt tcccggcggg gcgtgcgtac 180
 gcgtcgtgcg aggacctgcc gaagctgggc gcgtcgtgc actggacgta cgacgcgtcc 240
 aagagctccc tgtcgggtggc gtctcgtggcg gcgccgcag aggcggcgcg atgggtggcg 300
 tggggcctga accc 314

<210> 18196
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-B9

 <400> 18196

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 ctgatcgacg cggctgagct ggggtcctgg tcgctgtacc gcgccgtgat cgccgagttc 180
 atcgccacgc tgctgttcct gtacatcacg gtggccaccg tgatcgggta caagcaccag 240
 acggacgcgt ttgcgtcagg tgccgac 267

<210> 18197
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-026-Q1-K1-C1

 <400> 18197

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tcaattcata aacgacttgt cagtctcaaa atcgaccagg gtgaaggcta taccgaaat 180
 atttgctgac gctgggtttt cagatgttac acagaatctc ttggctgtcc tgacggacaa 240
 tggcacgctg aaatatactg aacgcattgc ggagagattt gctgatttga ctatggaaca 300
 tatcggggag atcaaagctg 320

<210> 18198

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-026-Q1-K1-C10

<400> 18198

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 atggccattt aggagataag gtgccaagtt acttgaaagc taaccttttt agcaacataa 180
 tgaaagagcc tctcttctgg tctaaccctc aataagcaat ctagaatgca tactgctcta 240
 caaacaagtc tattctacaa aataccaaac aacttgacc acctgcttcg acagcagcta 300
 ctgctattgc agttaatcgc taagacatgt ggatagcaaa tgtatgcgac tctccaactg 360
 cattgtgtga aacacgctct 380

<210> 18199

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C11

<400> 18199

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 tgccattcct tcaatgcaaa gaagaatctg actgctgtgc caagtcaagt atcgattttt 180
 catttttgtc caatccacgc acataatcat ccatattctt gtatacaccg tgcactatgt 240
 ttacggccaa ttggttctat gctatgaacg cacattactc ctttgttcac tgcagctaac 300
 aatttaac 308

<210> 18200
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C12

<400> 18200

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 cctttcctcc tcggcctcct tcagcacggc ggcgctctgg cagtggcgtg cttgcacgca 180
 ggcgaggacg cgctccttcc ggtgcgagat cgtgtccatg cgccacgtcg acaccagcag 240
 catgcgagag gagcacgacg ggtacaagac gagcatgaac ccagcctacg tcgtccacaa 300
 ctgctactcc agctccatat ccgac 325

<210> 18201
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C3

<400> 18201

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 ctgctgctgc tggcggcggg ggctcgagacg gcgcttgcgg cggtgagcag cggcgagggtg 180
 acgtcgtcag tagcgccgtg cctcgggtac gcgatggaca tcgcgggagac gccctccgcg 240
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 gccacc 306

<210> 18202
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-C4

<400> 18202

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aagtaaggag atcatgcaca acctgcggca gtaccagcta cctttgcagc gctatatggc 120
catgatggac cttcacgaga ggaacgaaag gctgttctac aagctgctaa ttgataacat 180
gcaggagctg cttcctgcgg gttatacacc aactgtaggt ga 222

<210> 18203
<211> 276
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-C5
<400> 18203

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cgctcctcct cctcccagcc gcagctggtc gcggcgggcg cggtcctggc agcggcgctg 120
ctgctgctgg cggcgggggc cgggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180
tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcgggc 240
tgctgcaacc gggcgcgctc gctcaacagc cgcgcg 276

<210> 18204
<211> 334
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-A5
<400> 18204

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gctgggcca ggcgggtac tccgttgta cgtgcagtg cggcgaccgg cccaagctgc 120
tgttcgacgt ggcgtgcacg ctccacgaca tggactacgt cgtgttccac ggcaccgtgg 180
acaccgcggc cggcgcgcg cgccaggagt tctacatccg gcgcgccgac tgcagcccca 240
tccggtccga ggccgagcgc gaggttctca cccaccggct tcaggcagcc atcgagcgga 300
agtcgcttgg aggcgtgagg cttgagctgt gcgc 334

<210> 18205
<211> 118

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-026-Q1-K1-C6
 <400> 18205
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 ctcgctggat ccactcccac ggatcataag tcccacgcag atgattagca atgcaact 118

<210> 18206
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-G9
 <400> 18206
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 gccatgtggc cgttttcgca cccgctgttt ccaccaccct cgagctgccc ccctacagct 120
 cctcctgctt ctttcagggtg cccagggttt ctctctgggca tgaagccatt gggctgtgat 180
 gtgagggtgca cagaacaaaa aatggggagg gggccccctc cattcctcta atctgggagg 240
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<210> 18207
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-H1
 <400> 18207
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 gaggcgtgac gtgaagctcg accggccatg gcattcacgc ccgctacggc ctgctgcaag 120
 gcttccctgg cgctggcacc gcgggctcgc ccccggggcc cggcggcctg cgcgagggcg 180
 gcgctcctct gcacgcccta cacctccgtg ttccggggcc tccgggagcc cgcacccgcc 240
 gcgcccggccc cgcgcgggcg ccgctcggcg gcgtccacgg gcatagtctg cggcaaggctc 300
 gccaaaggga gcgtgccgtc gaacttcacc ctcaaggacc agaattggaa gcccggtgctg 360
 ctgaacaagt tcaaggga gcccgtcgtg gtttacttct accccgccga cgagacgccc 420

ggatgcac

428

<210> 18208

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H11

<400> 18208

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cacaggggtg acaaccttac attcccacaaa ccttaaaaat caatagatga atcaatcaat 120

gttcatgtta aagtacacca tagtttotaat accactcaat tatgatcaac taatctctta 180

tataatacta aattacttta ccaacacccat aaccataaat atcgatccaa ttaatatatt 240

atagatcaaa ttgcttatta accctccaca aatatcaatg at 282

<210> 18209

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H12

<400> 18209

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tgtcggggcg cggcaaggga ggcaagggcc tgcgtaaggc cggcgcgaaa cgccaccgca 120

agggtgctccg cgacaacatc cagggcacatc cg 152

<210> 18210

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-H2

<400> 18210

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atggccaagg gtaataggat ttacacaaat gtacaaatgg tgcacagtta caggcagaat 120

ctgacacctt tagtgaaaat ggacacagga gctttcttgc aatggctgat tatcttgtca 180
ctgacaaaat cactgcattc ctagcgcaaa tgcaacgtgc agcaactgaa gtccttaaag 240
agaaacaact gaaagaccgt atgaacatgg accaagtatt gcagacagta ttacaaatat 300
tggacatgtt catggccctt tctgaagata actcatggat aaattatctt gtacctgaga 360
atccccctgt ttatgcacag ttgatggctg tgtc 394

<210> 18211
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-025-Q1-K1-H3
<400> 18211

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atatgactga tggttattca ggaagcgacc tgaagaatct gtgtgtgacc gcagcgcatt 120
accccatctg agaaatccta gagaaggaaa agaaggagaa gagtttggct aaaacagaag 180
gtaggccaga gcccgcgttg tatggaagcg agcacatccg tcctcttagc atagacgact 240
tcaaatccgc ccatgagcag gtttgcgcga gcgtttcatc cgactcggca aacatgaacg 300
agcttctcca atggaacgac ctgtacggcg aaggcgggtc gaggaagagg aaagcgctga 360
gctacttcat gtgacggcga gagacataaa accagaagga tcacaaccgc gccataaagc 420
cagaaagtat cgcagt 436

<210> 18212
<211> 412
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-H5
<400> 18212

tgtaaacatc attttttgtg cctgtottaa gctggatatt atgctgtgtg gtgggtatgg 60
tcccatatct ctgacacatt ttcattctga ttagtctttt tgtagcacat ttgtgaagct 120
gttaatttaa caacaatgta tatctagagt tattagattg cagtctcttc gagtcccttt 180
tgtttgatgc ttacagaagc cccccctccc ttgacatagc ctcaaaatct tcaacaacat 240

gncttgtgat gcaacagaag gcctaatttc atttttttta tcttttctcc aatagaatcc 300
 accctctgtt ccaacactgg ctgctgtaaa actggcaagt tggctgagag gtgctaaatt 360
 tattgttgat tggcataagt ttggatatac attgtcggng ttgtcgcatt gc 412

<210> 18213
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-H6
 <400> 18213

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 gaggatgctg ttagaggtgg atgtccaagg ctaatagtgg cagaggacat tgagcaggaa 120
 gctcttgcaa cccttgtggt taataggctt agagggtcat tgaagattgc tgctattaag 180
 gcccctggtt ttggagagcg caaaagtcaa tatcttgatg acattgctac tctcactgga 240
 agcactgtca tcagagaaga agttggatta tccttagaca aggcagacaa tgcggtccta 300
 ggaactgctg ctaaggttgt agttaccaag gattcaacaa caatagtggg agatggcact 360
 acacaggagg aagtgaacaa aaagggtgaca canatcaaga accagattga ggctactgaa 420
 caagaatatg agag 434

<210> 18214
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-H7
 <400> 18214

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 tcggtccgac gggccggcat aaccgactac cgcaagaagc tgctcaactg canggagctc 120
 gagtcgcgcg tcggcacctg gagagaaagc cttaaaaatg caaagaggga ttttaccag 180
 actgaagacg acttgaaatc tctgcaaagc gtggggcaaa taattggaaa ggttctccga 240
 cctcttgata atgaacgctt tattgtgaaa gccaacagtg gtccccgata tgtggccggt 300

tgccaaagta aagtacac

318

<210> 18215
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-H8

<400> 18215

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gtgccgggtgc cgtcggagga ggacaaggag gccgaggcgg cgctgggtgca caagatctcc 120
agcctggccg ccgccatcgc gaagctgcca tccctgagcc cgtcgccgga ggtgaacgcg 180
ctcttcaccg agctcgtgac ggcgtgcatt ccgcgcagca gcgtggacgt ggagcggctg 240
ggcccggagc tgcaggagat gcgcggcggg ctgatccgnc tctgcgccga cgcggaggcg 300
ctgctggagg cgcactactc cgacctgctg gccttcttcg acaacccgct ggagcacctg 360
tcgtcttnc cctacatcaa caactacatt ctgctgagcc agctggagca cg 412

<210> 18216
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-H9

<400> 18216

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gatctggcgc aacaagcctc cgtgggcgat tggcagagca tcatcaagat cttgacaaat 120
tctctcgatg ttctgaaatc aaattacgtg cctccgttcc tgatctgcaa gatgttcacg 180
caagtcttct cgtttatcaa tgtgcagctt ttcaacagcc ttctgctgcg gcgtgagtg 240
tgctcgttca gtaacggaga gtacgtgaag gctgggctgg atgagctaga gcattgggtgc 300
ttttggetga ctgaagagta cgcgatgatct gcat 334

<210> 18217
<211> 277
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A1

<400> 18217

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agaggtgggc cgagcgcggg tactccgttg tcaccgtgca gtgcggcgac cggaccaagc 120

tgctgttcga cgtggcgtgc acgctccacg acatggacta cgtcgtgttc cagggcaccg 180

tggacaccgc ggccgggtgc gcgcgccatg agttctacat acggggcgcc gacagcagcc 240

ccatccggtc cgaggccgag cgcgagggtc ttacca 277

<210> 18218

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A10

<400> 18218

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ggtacccatg cagttgcgat gacgaccttg cattcccagg tcctgaaaaa tcaggagatg 120

aatcagtcaa tgttgaggtt aaagtacacc atggttctaa tctgtctcag ttaggatcaa 180

ctgatctctt ggatgatact gaattgcttc accagggcca taaccataaa gatcgatcca 240

atgaggatat gatagagcag gttgcttctg aaccctgcac aaatggggat gatatcgtgg 300

aggctgcggc tgctacaaa tactttcgac aatggatctg ttgtggctgt tgctggtaag 360

agaactccat ctggttctgg tcactatgaa cacaatgtct 400

<210> 18219

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A11

<400> 18219

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ttgcaacgga tcttggtgag tatatctcac aagtttcaga aatttctgtc aaagaaaggg 120

gatacttttgc catcgccctta tctggaagtc ccctagtcag ttttttgggg aaactttgtg 180
aagctccata caacaagaca ctggattggg ccaaattggta catcttctgg tctgatgaac 240
gtgctgtggc aaaaaaacca tgcagagagt aactataggt taacaaaaga aggattcctc 300
gccaaagtac cgattctgaa tggccatgtc tactccataa atga 344

<210> 18220

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A12

<400> 18220

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acgtacaagt tctaaccacc ttgggggaacc tcaagtaaaa caacctatct atcctctaata 120
tacaacacat taactactat cattcttttta taaccttcac attttatgat tctgaaaacc 180
tgacaaatgc gaaaaccatc aaactgtaaa tctactaatc ccaactccatg tataataatg 240
ccattatttt gtatcaacct aaattatgac tactgccaac agataaatat atttacctgc 300
cgtatctcta caacttgcac ctgcttccgt tctagttgct agatcaaaac cctcttttct 360
acactaacgg ctcttaca 378

<210> 18221

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A2

<400> 18221

agctgaagag gaggaggagg aggaggagaa gcagcagcgc agccggagga gggagagcga 60
agatgcgccg cgtcgcgctg ttgctcgctg ccgcctgtg cgcgctggcg gcgccggctg 120
ccgcggtcgt cactgacggt cttctcccg aaggcaactt cgaggatggc ccgccaagt 180
cggcgctggt gaacggcacg gtggtgtcgg gcgcccacgc catcccgcgg tgggagacgt 240
ccggcttcgt ggagtacatc gagtcggggc acaagcaggg ggacatgctg ctggtggtgc 300
cgcagggcgc gcacgcggtg cggctgggca acgaggcgtc gatcctgcag cgcctggccg 360

tggcgcgcg cgctactac gccatcacg

389

<210> 18222
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-A4

<400> 18222

gccggcgccg ctgcagtgtc catagccacc tcaggagact gagatggggg gttttgtcaa 60
ggcccacgag agcaatgcgt acttcaagcg tttccagggtg aagttcaaga gaaggcgcg 120
tggcaagaca gactacaggg ccaggataag gctgattaac caagacagaa acaagtacaa 180
tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag cacaaatcat 240
ctctgctagt atagcagggtg atatggttct tgctatgtgc ttactacgat gag 293

<210> 18223
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G8

<400> 18223

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tcaggtcacc atagtaggca ggcattggcta cttagatttt gccagggtg caaatgggtgc 120
acagttacag gcagaatctg acacctttag tgaaaatgga cacaggagct ttcttgcaat 180
ggctgattat cttgtcactg acaaaatcac tgcattccta gcgcaaatgc aacgtgcagc 240
aactgaagtc cttagagaga agcaactgac agaccgtatg aacatggacc aagtattgca 300
aacagtatta caaatattgg acatgttcat ggccctttct gaagataact catggataaa 360
ttatcttgta cctgagaatc cccctgttta tgcacagttg atggctgtgt ccagtagtgg 420
ctttgatga 429

<210> 18224
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F2

<400> 18224

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ccatacaggg ttaagcatga atatgaaggg caatggaatg ataagaagac cgcctgaca 120
acgtgtgacc ctcatgctca acgtatcatt acttcgtccg agtctcctca ggaggtcgaa 180
gttggcaagg atatcatatt tacttacgat gtggatttca aggagagcga catcaagtgg 240
gcatctcggg gggacagcta tctattgatg acagatgatc agatccactg gttctctatt 300
gtgaattctc tcatgattgt tctcttcctt tctggaatgg ttgcaatgat catgcttcgt 360
accctttacc gggatatctc taagtataac caacttgaga ctc 403

<210> 18225

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-F3

<400> 18225

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caagtggagg cgggagcgga tcagatggag atggtgagaa aaatgaggca gttgatattc 120
aaagtgggtc tgaatccctt cctgataatg ccaatgctta agcaactgat gaccgtgcta 180
ctgtcagtct ttctgatgaa accgggaata taccatcagt tcatactgat aattcgcaaa 240
atgatgccag tgaaaaccaa ggtgatgcaa cttacactac ctctgattcg tctgagcatt 300
gcattgttga tgctgtccat attgaaact 329

<210> 18226

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F4

<400> 18226

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ggccagatga ggaggagct cgcagctcc tgctcgtacc gccgcatcct cttcctcggc 120

agccgacgcy ctccggggct ggtgggatga cgtcaacgag tgcggccagc ggcaggacgc 180
ggccttcttc tccctcgccg ccgcctacgc cctcgtctcc gccgtcgcac tgattcagct 240
cgtcaggatc cagcgccggg tgcccagatt cggatggacc acgcagaagg tcttcacact 300
catgaacttc cttgtcaacg gggtcctgct tctgggtatt ggcttccatg tccacgtctt 360
cctcctccgc gcaaaagtat acaagttggg gttgctagat ctccctgggc tgttggtttt 420
ctccacctac accttgctcg 440

<210> 18227
<211> 417
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-F5
<400> 18227

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cgcggtggtg gacgcggacg cgtctgtgta cggcagggtc gccgcggcag ttgatagcag 120
cgtggagtcg tacttccccg gcggcgagga ccactaccac gactgcggga cgatgggccc 180
cgtgaatcat ggcgccggag gaggcattca gtcggacgac gacggcgccg gcagcgacga 240
gggggtgcagc tactacgccg acgaagccgn cgnccnccn gncgcgttct tgcgggaca 300
cgccaccac caccacgcgg acgaggacga ggacgccggc cagatcagct ggtggatgtg 360
gaactagacg ttgatcttc ccacgccgat cgatcgaccg tcttcgaatc ctgtgtc 417

<210> 18228
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-F7
<400> 18228

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taagggatcc ttgcacacct annaaatctt aatattccaa taacatttcc atatacaact 120
atnttattgt cttcacattg ttttacctat atacaatcac aaatagcttc cttgccgatt 180

atgttctcng cgaaggagga tttgggaccg tttacaaggg ctacatagat gaaaatgtca 240
 ggggtggggct gaagtcactg cctggtgcag tcaagggtgct caacaaagat ggacaccaag 300
 ggcacagaga atggcttacc gaaattaact gcctggggca gttaaggcat ccaaacttgg 360
 tgaagttgat c 371

<210> 18229
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-F8
 <400> 18229

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 gcggggggttc cgggagaaac ccaggcactc cgagaagccg accaagtacg ccggcagccc 180
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 gcagctgccg tcggcgctcg ggtctgtctg tcaaagtcga agtaaaaaaa cgtgagtagt 360
 tgtactactg tagaagtttc ttttgtatag catgcacgta agaaatgacc aa 412

<210> 18230
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-025-Q1-K1-F9
 <400> 18230

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 gcggatcgtg atcgccgcat aggagtgtga ggtaccgtgc ttctcgcgcg cctcaactga 120
 gccacggacg accacttcct ccacaacgcc ttcagcacct acggcgagggt cctcgagtcc 180
 aacatcattc tcgatcggta gacgcacagg ttccgcaact tcagcttctc caccttctcc 240
 ac 242

<210> 18231
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-G1

 <400> 18231

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 agatataagg gatccttcca cacctaggaa agctgaagat gccagaaca tttccatata 120
 caacgatgtg attgtcttca cattgtttga gctagagaca atcacaaga gcttccgtgc 180
 cgattatgtt ctcggcgaag gaggatttgg gaccgtttac aagggctaca tagatgaaaa 240
 tgtcaggggtg gggctgaagt cactgcctgt tgcagtcaag gtgctcaaca aagatggaca 300
 ccaaaggcac agagaatggc ttaccgaagt taactgcctg gggcagttaa ggcattccaa 360
 cttggtgaag ttgatcggat attgctgcga agatgaccat cggtgcttg tcta 414

<210> 18232
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-G10

 <400> 18232

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 ttcgtgttag gtttcttctt tatatctgtc gtgtctgtgg tgtcgatgaa ctatctagta 180
 tgtggagcgt gtgcgtctca gcagttaccc tgccatgcc cgtggactgg ctgtcctgcc 240
 tactggctgg taaccatgta tattaatata aaaaatgaat ccgtgaccca aaaaaaaaaac 300
 caagaaattc aaaaaaaaaa gaggcccaaa aaaaaaaaaa ggcgggccct tttaaagaac 360
 ccaacttaac ttccccctcc t 381

<210> 18233
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-G12

<400> 18233

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agtgaaggct gcactaaata gacaatctaa aactcgattg attgggcca attgccctgg 120
tattcattaag cctggtgagt gtaaaattgg aatcatgcca ggttacatcc acaagcctgg 180
gcgtattggg attgtatctc gttctggtac cttgacatat gaagcgggtg ttcaaacaac 240
agctgtaggc ttggggcagt caacttgtgt aggcattggt ggtgacccat tcaatggcac 300
aaattttgtt gattgccttg aaaaatttgt cgatgaccct cagacagaag gcattgttct 360
catcggtgaa attggaggta cggctganga ggatgctgca acgttcatcc 410

<210> 18234

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-G2

<400> 18234

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actgctggaa tgggaaatgc attagctact gatggtggct cttgtacagg aagtgtcaga 180
gttgctgata atcagcgtct aagcagctct gggatggtt tctctgcatc tctgccacct 240
tatcttgcca gtgctgctgt ttctgctgtt aactatctcg aggaaaatcc ctccagttctt 300
gcaaaccctaa ggagcaatat tgctcttttg cataaagaac tatcagatac ttcagggtctt 360
gaanattcca gccatgttct gtcacctatc ggcttctt 398

<210> 18235

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-G3

<400> 18235

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atggagccgc tggtagatac agtggatgca aatcagattg tcactaactg ccagttactg 120
aagacaatgg atatctccaa aatgacccca ggtgacgcgt cctttactgt accattcaag 180
ctggtagcag agcggaatga ttacattcat gctcttgctg cataacttca cgtgtcgttc 240
accaaagcc ataagctgat gggcttctca acagggccga gatcgaaagc cactcactgg 300
aagcanactg ttctctacct ggaggatgtt ataactatct gtcangggga aagcctgagt 360
ggttccatga cagtacacc caataagagt aaccctcgag atatcgacat ta 412

<210> 18236

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G4

<400> 18236

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gtgggaacac ttgctgggag gctggacagg tggcacggga gaaattgaag aagaaaattg 120
ctacatacaa aaatggtgtt gttattcggga aacaggaagt tgaaagggca aaagaggctt 180
ttgctaaaga tgaagcagat ttagcaaaat cgaagggcga agagaaaatg ctccaaggac 240
ttgttgataa actcagagag caaaagatat taatagagaa tgcacaggaa gaagagcggt 300
taagataaga gaaggatgat aagagaacat aagatgaagc tgaaaagcaa gctgctgttg 360
aaaagggagc gcttgatgcc tctcgggatg tagattctaa ggaaattcat gatcatctgc 420
aagaag 426

<210> 18237

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G5

<400> 18237

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ggagtccagg gaggggccat ggattctccg gaccaaggcc ccaaggtggc acaagcagct 120

gcagtgctgg tgcctcaatt tcaggggcag ggtgacagtc gcatctgtga agaacttcca 180
gctcgttgct gccacgcagc ccgctgctgg agcaccaacc ccatcacagg ctaccccagt 240
gccgcccag caccgagaagg tgatcctgca atttggaag gtggctaagg acatgttcac 300
catggactac cgttaccac tgtcagcctt ccaggccttc gcgatctgcc tgagcagctt 360
cgacaccaag ctggcctgcg aatgaagcca ccagtcatgg ctcaaagtca aggacgatc 419

<210> 18238
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-G6

<400> 18238

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ccgggtcctg gcgcctgagg aaatacgggc tgaggtacga tgacctgtac gaccctatt 120
tcgacctgga catcaaggag gcgctcggga ggctgcctag ggaggtggtc gacgcccga 180
tccagcgct caagcgcgcc atggacctt ccatgaagca tcagtacctc cccgaggacc 240
tgcaggcaca gcagggtccca ttcagaggat atttgagtga catgttggct ctggtgaaaa 300
aggaaagcgc tgagcgtgaa gactggggag cccttccact ttaccagaga acgcttncct 360
aaattgctgg ctaaakatgg ctgcaagtct tctctttacg ccaaatacaga atg 413

<210> 18239
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-G7

<400> 18239

tgtagaatct caggccttcg attgtcgatt gcagcagcag caatgaccat ggagagaatc 60
gtatgagctg cttggcccc ctctgagtc actctgttac agatgcaaga gtggggactg 120
ctgccaagtt gttcatcttt cttgtgagct gtggcatgta tgtataattg aaagatgggtg 180
caggaaggaa ggaaaatgca gcgtccgaca gcgaccgggtg agctttgccg gtgagcctga 240
agggttgaaa gcaaagactg acaagaggaa gtgaacaacc gcgcattgtt gtgaggggtg 300

attaggatgg gaaagatttg gcttttagcg tgcacaagtt cacttgccat ggactagcct 360
ctgtatgttg cttttgcttt ttctgaaata tcgcatcacc tcttttggtg acaaaat 417

<210> 18240
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F12

<400> 18240

gaaggatcca ttagctctag agttcaaagg ttggccaagt acaggtttct aaagaaacaa 60
tgggagcttc tgctgagtgc tgatgatctt gatgccatgt gggtttgctc cagagaaaat 120
tgtgttattg atgatgctac tggtgctgaa aagatgaatt atgaagattt ctgccatata 180
gccacagtct gcacggagca gattggtcag aaatgcaaac gatttttcag cccttcaaac 240
ttcatgaagt ttgagaagga tgattctggg aagattgcta tcctaccatt ttatctttat 300
gtcatgcgaa cagtttctct tactcaagca agaattgata tgagtgagct tgatgaggat 360
tctgatgggt tccttcagcc tcatgaaatg gaagcatata tta 403

<210> 18241
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D3

<400> 18241

cgaccagaaa gttgtggatg agaaccttga gaagctgaag aaggtgctag aggtgtgcga 60
ggcacgccgg accaagtgca agtaccttgc tggagacttc ctcagcctcg ccgacctgaa 120
ccatgtgtct gtcactctct gcctgttcgc tacgccctac gcatctgtgc tcgacgccta 180
cccgcagtgt aaggcctggg ggtctggctc gatggagagg ccgtctgtcc agaaggctgc 240
tgccctgatg aagccatctg cttgaaacgg ttgccctgtc aatcggtgaa tggaataagc 300
caagtctgtt ctgggttggt tgcttggtca gtgatgtgtc ttctatgacg aaagttgagt 360
gcctatgtgt gagcatgctt gcttgtaacg agacattgaa ttgttcggaa atgagcattc 420

<210> 18242
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D4

 <400> 18242

 atggattggt ccacccggtt ccggacccga aaccgcgcgc cggccgtgtg ccactgtgcc 60
 ggccacaggg ggagtcaagc ggatagggtta tttctccgga ccatggcgtc ggccggccccg 120
 gtggaggagc cgacggcggc ggccgaggcg aaggggcggc tgaccggtga ctcccttcac 180
 cggcgccacc tcaggaccct cgccccgtat cagcccatcc tgcccttcga ggtgttatct 240
 gctcgcccttg ggcgtagacc agaggacata atcaagttgg atgcaaatga gaatccatat 300
 ggtccacccc cggaggtcgc tgcagcacta ggtagtctca agttccccta tgtgtaccct 360
 gatcctgaaa gccgccaatt gcgtgctgcc cttgctgaag attctagact tgaatct 417

<210> 18243
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D6

 <400> 18243

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 cggccaagat ggtgaacgtt cctaagacca agaagacgta ctgcaagaac aaagagtgca 120
 agaagcacac actccacaag gtgactcagt ataagaaggc caaggatagc ctgtctgccc 180
 agggaaagcg ccgttatgac cgcaagcagt caggatatgg tggtcagacc aagcctgtct 240
 tccacaagaa ggccaagacc accaagaaga ttgttctgaa gctgcagtgc cagagctgca 300
 agcactactc acagcacgcc atcaagagat gcaagcattt tgagattggt ggagacaaga 360
 agggcaaggg cacatctctt ttctaagctt ctgcgccacc tgtctgggtg ttgagttgaa 420
 gc 422

<210> 18244
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D9

<400> 18244

ttgcctacag ccttccatth cagggctctga aagctgggaa caagaaacag ggatatgtta 60
agatcatcga gaggaaggt gctacttcaa ttgaagctct cttccccgga tattctaccc 120
aaattagttg ctaatttcaa tactttccgt taattaccct tgaaaaatcc cccaactttt 180
aattccttaa aaaaatgggc aaaaaccctt ttatttcgga aaggtttcaa tttgaatatt 240
gtttttaatt gaccaattct aaattccac attccccaat taaccacggt tcggcacctt 300
ccattgggtc caccagttga ccaaactttt ggaatggttc cttttggaac caccatttgc 360
atttaaggcc cttataagga aagaaaaacc cccttgtcaa agtttt 406

<210> 18245

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E1

<400> 18245

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gtttcaatga cactgtctcc aattttaacc taatctcatt tcattaaatc taatctgaat 120
cttactctca tcccatatcc taatcatatc aattcttaat ctcacattaa atttatgata 180
cgagcaaagc caggcatgaa ataatatcaa ttataaagta tcttccttca ccatatttat 240
atgtattgaa tttacctaca ttactcttat acatgtatat gttctactct acataatagt 300
actgttctac attatagaca tt 322

<210> 18246

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E3

<400> 18246

cacgcactcg ggtaaagcta tctcgagcta gctagctgct gtaagccgtt gccatggcca 60
aaatgggtgtt ggtctgcgtg ctcggctcct tctctctgat gcccttggcc tcctagccc 120

tgacgcagga cttctgcgtc gccgacctga cctgcagcga cacgccggcg gggtagccgt 180
gcaagtccag cgtcacccgc aacgacttct acttccacgg cctggccggc cagggcaaaa 240
taaaccact catcaaggcc gccgtgacct cggccttcgt gggccagttc ccgggcgtca 300
acgggcttgg catctctgcg gccaggctcg acatcgagggt gggcggcgctc gtgccgctgc 360
acaccacccc ggccgggctca gagctcctct tcgtgaccca aggcaccgtc gccgtcgggt 420
tcatac 425

<210> 18247

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E4

<400> 18247

gattcccaaa tcccgtcacc atggccgcgc cgccttctcc ttcgtcccgc tcccggtcga 60
gcgagggtgc cgtccacaga ttcagcggca ccttggatgt atcatcatcg ccctcaagga 120
ccgagttggt gagcatggtg aagaagcact cacatttgat tgggtggacg attattggtg 180
ccgaggatga tgcatacatg gtgggaatgg atgataaatt ctggcatgaa atgcttgacc 240
tattctttgt gcgtggcagg caatcaaaaa gaagtgaaga ggatgacctt gtcttctttg 300
ttaataacat gaaattgcat ggttatggtt tcaatgataa catggaagat ccacctccct 360
ttttgtacg gagatgggct cccacgcttg aaaagatcag tattaatata gt 412

<210> 18248

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-E5

<400> 18248

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aaatttggtt cgggattaag ggcccgtggt tccaatttta accgattgtc gggggattaa 120
atctgacctg gaccttgctc taatccggtt tgctaataat gtcagttctg aaagetcaca 180

ttgaggttat gagacgagca aagccaggca tgaaggaata tcaattagaa agtatcttcc 240
 ttcaccatgt ttatatgtat ggagggtgcc gacattgctc ttatacatgt atatgtgcta 300
 ctggagataa tagtgctgnt ctacattatg gacatgcngc agctccaaat gaccggactt 360
 tgaatgatgg agacatggca ctaatggata tgggagctga ataccatttc tatggatctg 420
 atttcacatg ctca 434

<210> 18249
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-E6

<400> 18249

ctcactcttc aaatttctca aggtctgctt ttccggactg gatttacaac ttttttactg 60
 ataaaattac aggtgatcca attttaaccn aatcccttca tcattaaata tcattctttaa 120
 ctacctctca tcttatcttc taataatata actcatataa tctcacattg acgatata 180
 taatatcaac accatgcata aaataatata aactataatg tatactactt taccatgttt 240
 atatatatat aggttcccta catttctttt atacatatat ataaactact ccatataata 300
 tttctttaca acattatata ca 322

<210> 18250
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E7

<400> 18250

cgcgcctcga tctctctcgc cccgcctgcc tctcctgccc tccccgcac ctgcagctgc 60
 ggagagcggg gcaagctagc tgcagaggag cgagacagca ggaggaggat gaggacgaga 120
 ggaagaagag atggcgggct gtgatggagc caagtcgtcg gcgtccatgg aggaagaggc 180
 atgcgcggag aagaagtacg gagggatggc acccaagaag cccttgatat ccaaggacca 240
 cgagcgcgcc tacttcgatt ctgcggactg ggtgctgggc aagcaagccg cgaacagcag 300
 cagcaacagc acgaggaccg catccgccgt tgagtctctg aaaccaagc tgaagcactg 360

atgagactga actcgctaac cgggctggtc ctttctccct gt

402

<210> 18251

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E8

<400> 18251

aggtcattga gcattacaat ttcgcaccgt tgactgccgt tttgtctgtg aactacgctc 60

gatagattcc tgctgacgta tgagttccct gaaggcagag cttggatgac tcagctcttg 120

gcagtggctt gcttgtcttt ggcttcgaaa atcgaagaga cttttgtgcc actccccctg 180

gatttgcagg tagccgaggg aaagtttgtt tttgagggaa ggaccataaa aaggatggag 240

cttctgggtgc taagcacctt aaagtggagg atgcatgctg ttactgcttg ctcatattgtt 300

gaatactttc ttcataaatt gagtgatcat ggtgcaccct ccttgcttgc acgctctcgc 360

tcttcggacc ttgtcttgag caccgctaaa ggtgctgaat tcgtggtatt c 411

<210> 18252

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E9

<400> 18252

gggactagtt ctagatcgca acggccacat gcggctgagg tacgaacgaa aacatgaggc 60

ttgtagtgat gcgggtcctg tgtatcggga agatgggacc gcctgtttat ctctgcttct 120

atatatcaac tgcgtatcat gatcagctgt ctgcttaccg ttgagtttca tatcagagtc 180

ctagatcadc tgagtattta gttgctttgc ttgcgagatt tacagcacta ttcccggtggg 240

tcgaacgttt cttgcagatg cttgaacttt atgttgctga acggtcctta tctacacggt 300

cacatactct tttgtaacaa aaagcttat 329

<210> 18253

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-F1

<400> 18253

gcgggcgaga ggagaagaag cccgccgccg cgggtggcccc gattttgccg ttccggccgc 60
 tgcaccaggt gccgccgcag tacatgcaca tgatcagcaa cgactacatg agccagtacc 120
 accgncccc gccgccgccg gtggcggtacc acccgtagcg ggcgcgcgcc ccgccgcccc 180
 cgcagtacta ctacgtgcgc aacatgagca tggaggagaa cccaaactcg tgcgccatct 240
 gctgaagcaa tcgatcccg cgcgtttgtc tgtcgcgtcg cgcgcgcgaa cgtgagtacg 300
 tacgtgtctn ccggnccggc ccgccccgcc ccgtccatgt gtacatncgt cgtcgtgtta 360
 cgttattatt acgatgagaa gacagacgaa tcatactagc tactcgtagc ttt 413

<210> 18254
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-F10

<400> 18254

ccggcgcggg cgtacggcta cgcacacgga catgcgacga actggctctg ctaagttgcc 60
 ccatatatct ggttccagga tgaaggcgtg ggggcgtagt gatacacaaa acgctctgga 120
 cgccaatctg acgatacttg cctacatcta cgctgaggcc tttaacaaaa ttagccagaa 180
 cgacacac 188

<210> 18255
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-F11

<400> 18255

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 taaggaggcc gatccatcct ccagcctccg atcccatccg acgacatggt ctgcgtcgcg 120
 tgccctgctgc cgctcttcct gatcccgggtg gtcaacgccc tcccttacct catcgacctc 180

atcatcagca aggtgtatcg gctatttggg tgggagtacc ggagacctga aagagtccca 240
cctgcatgtc catacaagcc tgcagctcag aagaacgatg aggggtgcgag tgaatcaaaa 300
cccctggtcg aaccgcacgg tgctgggtgct tgtgctgcgg cggcagagga taagaaagtg 360
gaatgatgca acangcgctt aaaat 385

<210> 18256

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D2

<400> 18256

acgcgatgct ggaattcgag aggctggtga aggtgaggca ccaggctcgtg gccgggaccc 60
tgcaccacgt gaccgtcgag gtgaaggagg ccggcgggcgg cgaaaagaag ctgtacgagg 120
ccaagggtgtg ggagaaggcg tgggagaact tcaagcagct gcagagcttc gagctcgtcg 180
gagacgccgc ggtcgccctga ggcgcacagg cttttcgtcg gaggctggag tacaacaatg 240
aaagaattta actgtcatcc cactggaaaa gtatgatata atgaataaac cagcgtctta 300
ccacatgtat tgtaccctaa tgagatattt gacccctgta atagaatgag atgtgctaag 360
gaatctgaaa gtcttcttgc tttttgttgc c 391

<210> 18257

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B7

<400> 18257

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agaacaatct tgctggccac ccaactatcc acatctgtga cgaggaaaac atgtcttttt 120
tctgacttgg aagacgatga tgtgaaatgg tgtacttgca acttgcaaac cgagatatgg 180
acttttttac aagaaaatgt acaggtctag attgctcctg aaaataacaa ggacaccatt 240
aaaacatgtg gctttgtttt gcaatcaaat ttcttgggtg atgccacttt taaatctacc 300
cccgtaaana cacttatttt at 322

<210> 18258
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B8

<400> 18258

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 acggg'gcag ccccaactta tctcaacaat taacatacac attacactat catatatttc 120
 cttcattatt cttactccca atcattcttc ttttaacata aatatatcaa actaatttac 180
 tcttatacaa ctctcctttt taccaatata actaatatca taccttaaac tttcttcaaa 240
 ctttatttcc tctacattta cacatctctt ctctccaata taataattta caacacatat 300
 atattcttcc accatcttct ctatcaaata atttccaaac ttaaa 345

<210> 18259
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C1

<400> 18259

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 tcaaagtggg tgcaagatga tgatggcata gacgaggaga acaatcttgc tggccaccca 120
 actatccaca tgggtgacga ggaaaacatg tcttttggcg gacttggaag aggatgatgt 180
 gaaatgggtgt agttgcaact tgcaaagcga gatatggact tgtgtacaag aaaatgtaga 240
 ggtcgagatt gctcctgaaa agaacagga caccatgaaa acaggtggct ttgttttgca 300
 gtcaagttgc cggggtgatg ccaactgtta agctaccggg gtgaagacac agatgttatc 360
 gtcgagata tggcagagat atggcagggt gctacgtttc actagcatta tcgcttgtaa 420
 ttg 424

<210> 18260
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C10

<400> 18260

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agccataact cttcagatat actggcgctc cacttcatgg ctccatcgag ttagactggt 120
agagtaattt tgattggccg aagcggcggt ctctgccctg gaaggagcgc aacgcttcca 180
ggtactcagc ctccccaag tcaggccaca tcttgccggt gaagaacaac tccgagtacg 240
ccgactgccca cagcaagaag ttgctgagcc tcatctcgcc gctgggtctg atgaccaggt 300
cgggacagga gaactcgccg gcggcgctcg tcgagagctt gccggcgatg accgactcgt 360
ccatgctcgc cggac 375

<210> 18261

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C12

<400> 18261

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tgttttttga cagaggaac tcacatgaa tccactaatt gctgctgctt ccgttattgc 120
tgctggattg gccgtagggc ttgcttctat tgggcccgga gttgggtcaag gtactgctgc 180
aggacaagct gtagaaggta ttgcgagaca gccagaagca gaaggtaaaa taagaggtag 240
tttattgctt agtctagctt ttatggaagc ttttaacaatt tatggactgg ttgtggcact 300
agcgctttta ttgccaacc cttttgttta atcctaataa agaaaatgag tccttttagat 360
tagatacttt tttctttttt tagtacattg gcatttgctt atgtaaa 407

<210> 18262

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C2

<400> 18262

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atgctcggcc tgtgaaaact tcacgagcga agccgtcact tatctcggca aggaacagac 120
acaggacagg atcatggagt tccttcatga tgcttgctcc caatcattct cctttgaaca 180
gaagtgtgtc gagctgatgg actcttatgc gactctcctg tttgccaaga tcacggagat 240
cagaccggaa gcgttctgca aacgggatgg cctgtgcagg gacacagctc ttctctccgg 300
tgtgggaagt gacagcacgt gtgtgttctg ccaccatctg ctogatgaaa tcatgtccaa 360
actgaaagat ccagatgcgg agtttgagat aattcagatt cttgtcaagg agtgcaataa 420
gatcg 425

<210> 18263
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C3

<400> 18263

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tcagatattt ggcaagacga tgatcacata cactaggaga acaatcttgc tagccacca 120
actatccaca tggatgacga ctaaaacatg tcttttttctg gacttagaag acgatcattt 180
gaaatcactt atttgcaact tgcaaagcga gatatcgact tgtgtacaac aaaatgtata 240
tgtcgacatt gctccttaaa agaacacaca caccatcaaa acacgtggct ttgttttgca 300
ttcaagtatc ctgggtgatg ccaactgttaa agctaccggc ctcaacacac agatgttatt 360
actcgacata tggcaaacat attgcatagt gctacatttc actaacatta t 411

<210> 18264
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C4

<400> 18264

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gcatgggtg gacgcgctga cagaccctcg cgtgacccat gaacaccata ccatttggat 120
ctcctactgg tcccagtgtg acgccgtctt tggccagaag ctggcttcta ggctgaacct 180

gaagccgaac atgtaagatc gacgaggaag aaagcaggca ccggtggcca aggttgcaac 240
gcaacatgga gcggtgatg tttacaccaa tataattgaa taaacagggg atgtgcgcgt 300
cgtcctactt atgctgatgc tgatggtcgg tgatcgggta tatatactgg aacttctggg 360
gtatgctctt ctcttctgga aagacgtaat gtaacgaaga agaattgtgtc a 411

<210> 18265

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C5

<400> 18265

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ggaagctgga cacactgtgt gacctgatg agaccctggc cattaccag agtgtcatct 120
ttgtcaacac ccgccgaag gtggactggc tcaactgacaa gatgaggagc agggaccaca 180
ccgtttctgc cactcatggg gacatggacc agaactactag agacatcatc atgagggagt 240
tccggtctgg ctctctccgt gtgctcatca ccaactgacct gcttgctcgt ggtattgatg 300
ttcagcaggt gtccctgggc atcaactatg atcttccac ccagccagag aactacctgc 360
atcgtattgg tcgtagtggt cgttttggta ggaaggggtg tgccatcaac ttt 413

<210> 18266

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-025-Q1-K1-C6

<400> 18266

ctggattgct cacagatacc ctgtgcattt tttagtgggt gaggttaatg ttaaggtgga 60
gagtgcaggc acacgtaacg tgcacaataa tgatttctat gctaaagaga agttgctcaa 120
atcaatgcgt gattgtgatc ctctgtctgt gcgccactgg attgtaagag ttgttttctt 180
gttttaattt tttttgttat tcctaccatt aaattgggca ttcaatacct gttcattatc 240
cgaatgctta tgcaatccaa taatgatgga aaataactga cttggctgct ctcttgagtt 300

gtggcaacgg aagttctagg ccccgttgca gcactacact gcgctaattgg accttcagaa 360
atgagaagct attntacaag ctccagattg acaatgtc 398

<210> 18267
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-C7

<400> 18267

ggtacgcgca caaaatgaaa aagaaaaggc gaaggcaa at gaatcccagt caggcaagca 60
aaggggaagaa ccagctgctg gggagtgcgg agatatcgtc gcagctgata gaggagcacc 120
tgtccgactc ggacgtacac gtctggcacg agctgtgcga gcacacgtaa cgcgacttca 180
tggtagacct cgacctccac gacagcctac taacgatgac cagactagga cgacgtgggc 240
tacaaccgt cgaccgcgtt cgagtggctg cctcatacca acatgactga cccacacctt 300
aa 302

<210> 18268
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-025-Q1-K1-C9

<400> 18268

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cgcaatctgc cgtagcggtc gccgtggtgg ccgcgggtgct gctgctggca gcggcggcga 120
cgacctcgga ggccgccatc acctgcgggc aggtgagctc cgccatcgcg cctgcctct 180
cctacgcccc cggcacgggg tccggccccct ccgcgtcctg ctgtagcggc gtcaggaacc 240
tcaagagcgc cgnacgaccc gncgncgaca ggcgcgccgn ctgcaactgc ctcaagaacg 300
ccgccagggg cgtcagcggc ctcaacgccg gcaacgccgn cagcatcccc ttcaagtgcg 360
gcgtcagcat ccctacacc a 381

<210> 18269
<211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D1

 <400> 18269

 gactaagagt tttacctcag agtgcctca tgttgagagg tattttctgga ccatgggtaa 60
 ccaaccaagc ttcaaaaagg tcattggtga cgtaagcag gcagaagctg tgccacttgt 120
 tccacagaag gctgctccag ccaaagtga gaagcctaag gaaacaaaa aggaggctcc 180
 gaagcccaag gtaactgaga aatcagcaga agaagaggag gcaccaaagc ctaagccaaa 240
 gaacctctt gatttgettc ctctagcaa gatgattctt gatgattgga agaggctgta 300
 ctctaacacg aaaaccaact tccgtgaggt tgctattaaa ggtttctggg atatgtacga 360
 cccagagggc tactcctgt ggttctgtga ctacaagtac aatgatgaga acacagtgtc 420
 gtt 423

<210> 18270
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D10

 <400> 18270

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 atgtctggat ccgtcggggg ggacaagaag cccgctgagg gcggctccca catcaacctt 120
 aagggtcaagg gacaggatgg caatgaagtg ttctttcgca taaagaggtc caccagctg 180
 aagaagctga tgaacgctta ttgtgaccgc cagtctgtgg acatgaatgc cattgcgttc 240
 ctgtttgatg gccgcaagct tcgcggcgag cagaccctg atgagctgga aatggatgac 300
 tgcgaccaga tcgacgcat gcttcaccag accggaagca gcgttcctag caccacccta 360
 aaacctcggt ttgcttctcc tactgcgtgg tatt 394

<210> 18271
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-D11

<400> 18271

gcgcccagga ggctgttcag gagccggtcc aggagcacca ccatcatcgg cggcggcggc 60
gcggacatct gcgccatggt cgccgagcac gagaggatcg agtgggaggt gcggcccggc 120
gggatgctgg tgcagaagcg gcgctcgacg gaggacgacg cggcggcggc cgtggagtac 180
atcctggtga gagtctccac caccgggtgg cagtggcacg acgtctccat cgacgccacc 240
gcaaccttcg gcgacctgaa ggtgatgctg tcgctggcga ccgggctgtg gccacggag 300
cagaggctgc tgtacaaggg caaggagagg gacgactgcg agcacctgca catggtgggg 360
gttcaggaca gggacaaggt gctgctcctg gaggaccccg ccgtaaa 407

<210> 18272

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B6

<400> 18272

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gagctcgggg tctgcctctc tcccggggaa aggatggagt tcgggaggaa gcccttgagc 120
cttgtggagc tctgcgtgcg gaaggccatc gacaacctcc gctacatggg cagcgtcgac 180
ggcgtcgaga tggatctgct caagcgcac ctgccgcact gcacgatgga gcagctcacc 240
cgcgtagaga acagcaccca gatggatctt agcttggttaa ctgatccgct gtggaggcga 300
ttctaccagc gagaattcgg tcaggagcat acgagcaaag tcatcgcaag gctgaaggag 360
cttgggcaaa aaacgccgta cacatggagg gagctcttcg cgggcgaaaa agagaaacag 420

<210> 18273

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A12

<400> 18273

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agttgagctt gcaatgcata gatggtctgg gcagttcagc cggccattcc tctttggatt 120

attgaatgat gggacattgt tgtgttatca cgcattatattat tttgaaggct cagaaagcaa 180
 tgtgcaatgt gctcctttct cacctcatgg tggttcaccg gatattggca atgccactga 240
 ttcaagactc agaaatttga gattttgtcg agtttcaata gatattctcat cagagatga 300
 catatcatgg cttgtacgac caagaataac aattttcaac aatggtggag gttacgaggg 360
 attatttctt ggtggcccaa agccaacctg ggtttttggt tggg 404

<210> 18274
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-A3

<400> 18274

atctcgcttt cgatcangat tgggttcggt tcgtggttct gcggtgctta tctggttact 60
 gtttatcggg gggcggggtt cactaccaa ttctcttctt catttacctt tatacattgt 120
 agccaatttt atcattgttc ctgcgtggag aaaaatcatg atggttttaa agcagatgga 180
 actggcaaaa ctccacagaa tgaactgaca tgtagtggtt gcttagaaca agtcatggtg 240
 ggtgatctgt tgagaagcct accatgcttg catcagtttc acgtaaactg catcgaccca 300
 tggctgcgcc aacaaggtac atgccaatc tgcaagcacc aagtcagtga tgggtggcat 360
 gccac 365

<210> 18275
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A4

<400> 18275

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 tatcaccggg ccgctgagac agaaatgaag tatgacaaga agcacttctt tgatcacttt 120
 cacaaggacc atgactacca ccacttcttt gaccatttcc acaagaagcc tgtgccaccc 180
 aagccaaaac cagagccaga gccaaagcca aagccacaac ctaagccaga gtacaagccc 240

cccatgccca catacgggtc tccaactcct atctaccatc ctccagccaa gaaagaagtg 300
gcatttgaca agaagcactt ccttgatcac ttccacaaag accatgacta ccaccacttc 360
tttgaccact tccacaagaa gcctgtgcc ccaaagccta agccggagcc caagcca 417

<210> 18276

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A5

<400> 18276

gctgtcacag cgtggctgac cagcagatcc gtcgttggcg gaaccacgc tcgccggctg 60
cgaatgcatg tgtaggctgc tctgcgtcgg cacggacaat tggacgagct agactctgcg 120
tcgccggcga tggggtgctc cttctcaggg ctgaacgcac tgtacgacac cgtcggcggc 180
cggggtggtg acgtctgggt taacgactac cacttccgcg tgctccgcag gctcggcgat 240
gccggccctg cgggctcgtc ggtcttcctc gtcaaggagg tcgtcgccgc cgcaaccgcc 300
tccgacggca cggctgggtc agagcccgcc gcctcagggg tcgccgggaa gaaaggcatc 360
gacccatcac acatctcagc tgacgggaca tatgctctca agaaagttct tgttcagagt 420
gatcagcact 430

<210> 18277

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A6

<400> 18277

aaaaatgaag ctaggttctg catgttactt tgtgatgtcc agaagaatat gtcaagggaa 60
ccagaaaaga gaaggggcta tgaaatgttc ttcttgagta gtctccttgt ggcaccaaatt 120
agattccgcc catcaactag ctctagtctt ggaattatgg aacatcctca aagtgttctg 180
ctaagtaaag tgcaagaatc caatcttgcg ctacaacatt acaatgcac ttctaaccat 240
atggatgttc ttcaaagatg gatggatcta caacggagtg taaatgtgct atatgatagt 300
agcaaaggcc ttgcaagaag cgagaagaat gctcatggta tacgccagct attggaaaag 360

aaagaaggaa ttcttcgaca aaagatgatg gggaagaggg ttaattatgc atgccgatct 420
g 421

<210> 18278
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A7

<400> 18278

cgaattcccg gtcggccccg cgtccggtat ctcgctttcg atcaggattg tggtcggtgc 60
gtcgttctgc ggtgcttata gtggtttcgg tttatcggtg cgggggggttc acggtcaaat 120
tcgctgctgc gtggcgcttt tgacattgta gccaatTTTA tcattgctcc tgcgtggaga 180
caaagccgga tgggtctaaaa gctgatggaa ctggctaaac tccacagaat gtactgacat 240
gtactgatgg cttacaacca gtcatggcgg ctgatctggt gagaagacta ccatgcttgc 300
atcacgttca cgtgaactgc atctacacca tggctgcacc aacaggggtcc atgcccaatc 360
tgcacgcacc a 371

<210> 18279
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A8

<400> 18279

ttcttctctc tctgctctc cgcgtccgcc tgatccatcc aagacagga tcgccgtgtc 60
ggactcggag gaggaccact tcgaatcgaa ggccgacgct ggggcgtcca agacctaccc 120
gcagcaggct ggcaccgtcc gtaagaacgg cttcatcgtc atcaagaacc gtccctgcaa 180
ggttgtggag gtttctacct ccaagactgg taagcatggc cagccaaat gccactttgt 240
cgcatagac atattcaatg ggaaaaaagc ttgagatatt gttccttcat cacacaactg 300
tgacattccg catgtgaacc gtactgagta tcagctgatt gatatttctg aggatggatt 360
tgtgagcctt cttacttcag atggcaacac taaggatgat cttagactcc caactgatg 419

<210> 18280

<211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-A9

 <400> 18280

 gttgcatccc acagtctcat gcgcatgttt acttacagaa gttcatgaaa agacacgtgc 60
 acttgtaagt tgtaaccacc ttgaagaagc taaagtaaaa caacatgtgt tttctctaata 120
 tacaacacat tatgttctat cattttattg taaccttcac attttctgat ttgaaaacc 180
 tggtaaattgc gtcaaccatc aaactgtaaa ttactaatac ccagtccatg tatagtgatg 240
 ccattatttc gtgtcaacct aagttatgag tactgtgaac agatgaattc atttgccctga 300
 tgtgtttctg caagctgcat ttggaatgct actgggttgc agatgaaaac ccttgtttat 360
 gcactaatgg ctgctgt 377

<210> 18281
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-B1

 <400> 18281

 gaagaagacg agtgtcaagt gaacctgaaa cttgcggtgt cactggctgg tagcgtgagt 60
 gtgagtgagt gatcgagcta gctgagctcc gatcctcgct agctaggata ccgccataacc 120
 acaagtcttc ttcacaagtt taggagtgac agcaacaaga gatcgatggc ctctgccacc 180
 gtgctcaagt cctacttctt tccaagaag tccgaatggg gcgccaccag gcaggccgcc 240
 gcgcccaggc cgaccaccgt ctccatggtc gtccgcgcct ccgactacgc cgatgagctc 300
 gtgaagaccg cgaaaacgat cgcgtcgccg gggcggggca tcctggcgat ggacgagtcg 360
 aacgcgacgt gcgggaagcg gctggcgctc atcgggctgg agaacacgga ggccaaccgg 420
 ca 422

<210> 18282
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B10

<400> 18282

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agacagcaat tgatcgtaaa cctggccatg ttgatgcctt atataatctt ggtggattga 120
acatggacgc aggtcgtttt gtacgggctg cggagatgta tactcgtgtg ctgagcatcc 180
gaccaaacca ttggcgtgca cagctaaaca aggcagtggc tttgcttggg cagggtgagt 240
ctgaggaggc caagaaggca ctcaaggatg cgtttaagat gacacaaaag gtggaagtgt 300
atgatgctat ctcacatttg aagacattgc aaaagaagaa gccaaag 347

<210> 18283

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B11

<400> 18283

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actgcaaggt gcttgtgaac attgagcagc agtcccctga tattgctcaa ggtgtgcacg 120
gccacttcac caagcgcccc gaggagattg gagctggtga ccaggggcac atgtttgggt 180
atgcgactga cgagaccctt gagctgatgc cctcagcca tgtccttgcc accaagcttg 240
gtgctcgtc 249

<210> 18284

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B12

<400> 18284

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atgacatgga agactaccat gtggcagagt acaagtatgt gaagaatcat gagcttggtc 120
tctttgccat ttttgatggc catttaggag ataaggtgcc aagttacttg aaagctaacc 180
tttttagcaa cataatgaaa gagcctctct tctgggtctag ccctcaagaa gcaataaaga 240

atgcatactg ctctacaaac aagtatatct tagaaaatac caaacaactt ggaccagggtg 300
gttcgacagc agttactgct attggagttg atggtaagga catgtggata gcaaattgt 358

<210> 18285

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B2

<400> 18285

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tcctattcta gctatctacc tatcaaagca tcaattctcg caacaaaccc accaccctac 120
cacaactctt ctttccaaac gccatagaca acctaacctt caatcccaac cctaaccacac 180
cctacaaaaa tcctctttta ctcacccctat cctactacac tactcaacaa ctcacccacac 240
tagacaacag caccctaatg tatcttatct tagtaactca tccgcttacg aagctattct 300
accatccaca attcaatcaa tagcatacca tcaaatcat ctcattggcta aactaactta 360
gacaaaaaac tccatacaca tcgaatcaac tcttctcttc g 401

<210> 18286

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B3

<400> 18286

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ctgaataagt gatcaatcta tctcacctaa aatcctcact acctaagata ccccatacc 120
acaattcatc ttcacaacca taagaccaac aacaacatca gatccatggc ctatgccaac 180
gtcctcaaga cctatttctt taccaacatc ctccaatact gcaccaccaa acagctcacc 240
cgtctcaaga acaccaccga catcaatctt atcctcgcca ccgactacgt ctataagcta 300
ttctacaccc caaatccat c 321

<210> 18287

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B4

<400> 18287

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tgcttctagg cggatatgtg tacacaatgc ccacttataa cggctctaac atcaacctca 120

tagtcaccga actagctgac aaatatcagt tctcccacat aaagaggtcc acccagctga 180

agaagctgat gaacgcttat tgtgaccgcc agtctgtgga catgaatgcc attgcgttcc 240

tgtttgatgg ccgcaggctt cgcggcgagc agaccctga tgagctggag atggaggacg 300

gcgacgagat cgacgccatg cttcaccaga ccggaagcag cgttcctagc accacctaaa 360

agcctcgttt tgctctccgt cctgcgtagt agtaacaaa agggaaaa 408

<210> 18288

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-B5

<400> 18288

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tgcgagggtga ccgacagcct gcgcgcgttc gagatgtcga tgaacacgtg ggcggagtgg 120

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cacctgcact ccgacgagtg ggaggaggcg gccgggtccg ggagcggcgc cggctaccac 240

cgatgctacg gcgaaatgga gccgatcacg gcggatgggc accgtgggcg ggacacggac 300

ccggcgttcg cgcgcgcggt ggatgcgcat gtggcgcggc tgggcgcgcg cggcgctgcc 360

gtgcgggtgc tcaacgtgac gcagctgtct gagcacgca aggacgcgca cccgtacgtg 420

cacc 424

<210> 18289

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F7

<400> 18289

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attgcgatat cctccactag ttgcagtgga tctgtctcct ccaccagcta gaagagaaaag 120
aatttctttg ctgcttgagc tcatagatac ctacaa 156

<210> 18290

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-F9

<400> 18290

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aggaattctg atcaggagtc tgaacccaac cgaatcctct tagttactat ccaccacatg 120
atctatccta taacgggtgga ggttctacat caagtattca aagcttatgg atttgtggag 180
aagattgtca catttcaaaa gtcagctggg tttcaagctc ttattcagtt tcaactcgcg 240
caagaagctg tggaagcatt tgggttctttg catggaagga acatatatga tggttgctgc 300
cagctagata ttcaatattc aaatctcagt gaactgcaag tccattacaa caacgaccga 360
tctagagatt tcacanatcc atcattacct acagaacaac gccctatggc ctcttagcaa 420
gcttatcctg atccagctaa tctctatg 448

<210> 18291

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G10

<400> 18291

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atggatacat atatgtctac acttacactg aactaagct taaggaggcc aagaaattca 120
gagctcatga caactctgtc gacgtgttgg ctgtccaccc aaccgaggcg taccttcttt 180
catcatctgc ttatggcaaa acaataaagc tttggagctg gggcagtgac tcgatcatga 240
actgggtgca aattaaaaca tttaacgtga aacctacata tccggatgga gtgcgcagtc 300

tcagggtttaa cccaagggac accaactt ttgcttgtgt tacgtatgaa gatagagtaa 360
 aggtcgggga cataaaaaat ccttctggtc ttaccaccat actgaagggg ccattgaaag 420
 ctgattattg cttctctcat actc 444

<210> 18292
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-G11
 <400> 18292

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 aggaagatgt ggggagagct gtcagagtcg gtgaggggag tgctgcgggg gtacccgagg 120
 ctgcggctga cgcacgggag gatggtgctg gaggtgcggc ccaccatcaa gtgggacaag 180
 ggcaaggccc tggagttcct gctcagtcg ctcggttcg cggactgcag cagcgtgctg 240
 cccgtgtaca tcggcgacga ccgcaccgac gaggacgcct tcaaggctcct gcggcgccgc 300
 ggccaggacc agggcgctcg catcctcgtg tccaagcacc ccaaggagac gagcgctcnc 360
 tactcgctcc aaggggccgc cgaggtgatg gagttcttgc tgcggtcgt cgagtgaag 420
 cgctctcca gggcaag 437

<210> 18293
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-G12
 <400> 18293

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 ctgtcgaact cctcggcgcc gacgacaacg acgaccgctc gctgttgatt gcggcgggcg 120
 cggctgctgc tcagaaggcc aaggcaaaga agtccgccgt ggcgcctgct gggaaggctg 180
 cccagcctgc ggcgaccacc aagttccga ccaagccgc tcctccctcg cagacggttc 240
 gggatgcacg cggcggtggc tcatcagctc gtggaggctt tggccgtggt gaacgtggcc 300

gtggcagagg tggacgggga tatggcacaa ccgcggcttc agaggtgaca atggccatga 360
 gttccaagga gggttatgggt gccgatgcta tggggatggg gctgtaactg gtggatctga 420
 aagaaaaagg gagagagaca c 441

<210> 18294
 <211> 196
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-G2
 <400> 18294

aaaagacagg ctacaaggat gatgaggga ctgcaaatga gctctctttt cagatgtgga 60
 cgaatcatat gcaagatacg ttgaactcaa aaaagaaagg tgacaatgct tttcgacaga 120
 aggattttac tgctgccatt gattgctatt ccagtttat tgaaagtggg acaatggttt 180
 cccaacccat ttatgc 196

<210> 18295
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-G3
 <400> 18295

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 gtgccgtgtg cgggtggtggg gagtgggtgac tttctagtcc ttgtgcgggc cattcgccccg 180
 tgtctagtgg ctctctatg agtatgccag atgtccttag attccggcgc atgtagccga 240
 gctcggcgga gactccgatg ccaactgtcgt gaactaaatt accaagggtt gttcgatcga 300
 agaatgcaat tagca 315

<210> 18296
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-G4

<400> 18296

gccagtaccg agtcctacga gcagtcgcac gcaagtgtca agagacgaaa cggtcgacat 60

ggctcgcacg caaatcttgc cgtagcggtc ggcttgggtg gccgcgtgct gcttctggca 120

acggccggga cgaccttoga aggccgccat aacttgcggc caggtgagct ccgccatcgc 180

gccctgcctt tcctacgccc ggggcacggg gtccggcccc tccgcgtcct gctgtaacgg 240

cgtca 245

<210> 18297

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G5

<400> 18297

acttgcagtg gggctggagc tggttggagc gctggatggc agcaaaacct tgggagggac 60

gcaatgggac cgacaaggag agcaacattg atcgcggtc cgtcaagaat atgagcttga 120

accttggagt tggaaagggg gagatcacia aagcttataa ccgccgggac tcaaagccag 180

agaagcca 188

<210> 18298

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G7

<400> 18298

ggcttttgag agtgtttgcg tgaaaatgat tgctgccggt gccgaacata ctggtgcagt 60

aactgaatac ggtgacctct acggatgggg ttggggtcga tatgggaaac ttaaggcttg 120

gtgaccgtaa tgaccgtttg cttcctgaaa aagtatatt 159

<210> 18299

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G8

<400> 18299

cccgtagcgg cacggcatgg cggccactgc gtactccgtg gcgctcctcg gcggcgcacg 60

cctgccagcc gacctcctcc ctccggcgag cagcgtgtgc caccaccagc ttcgcctcca 120

agacgcaccg aggctctccc tgcaccgtgc cagggccgct tccgaggaca cttcggcctc 180

cggcggcgac gagctcatcg aagacctcaa ggcaaagtgg gacgccgttg aggacaagc 239

<210> 18300

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-G9

<400> 18300

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aaggatcccc aaatccatgt tgggtcccctc aaatataaaa ctgaggagcg tcatcaaaag 120

caggaaactga ccccgagcacc agtttttccg cttattgttg gagtttctgt ggttgccactg 180

gtgatcagta tgccaagggtt aaatgactta taccagagcg ctgtagggat gacttctctg 240

ggttcaggga tggcaccgac caaaaaggag ccacgcaaga atatattaag aaagagagtg 300

taaatggcat attagcttag ccttaggggt cgagaaatga gacatgacaa attgagcaat 360

ttcaacagtg gaatagcttc tggtttcccc ctccggtaat tttgccgacg aaaaggaatg 420

ccagttttgt tgtacgatag cactatgcac agtttttgaa gcc 463

<210> 18301

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-H12

<400> 18301

ggtctggtgc caattgttga gcctgagatc cttgttgatg gccctcatga cattgatcgc 60

gggcgcttac gtcactgaga ccgtccttgc tgcctgctac aaggcgctca acgagcacca 120

tgtcctcctg gagggtagcc tcctgaagcc caacatggtg actccaggct ccgactccaa 180

gaagggtgact cctgaggtga ttgctgagta caccgtccgt accctccaga ggaccgtccc 240

tgctgctgtg cctgctgttg tcttcctctc tggtagacag agcgaggagg aggccacccg 300
 caacctcaat gccatgaaca agctcagcac caagaagccg tggtagcctgt ctttcctcctt 360
 cgcccggtgcc ctccaggcga gcacctcaa ggcctgnngc tgcaaggtgg agaacttgga 420
 g 421

<210> 18302
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H3

<400> 18302

gaggtcctgc aggagctteg cgggcctcct cgccgccgac cccaaggtct tcgacaccct 60
 caacggcacc agggacaccg cgctcacgt attctgcccc gtcgacgcgg cggtaggcgc 120
 cttcatgccc aagttcaaga acctcacggc caaggccaag acggccatcc tgctgtacca 180
 cgccgtgccg gactactact ccatgcagtt cctcaagtcc aacaagggca aggaaaa 237

<210> 18303
 <211> 222
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-H4

<400> 18303

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 cgccctgcct ctctacgcc cgcggcacgg ggtccggccc ctccgcgtcc tgctgtagcg 120
 gcgtcaggaa cctcaagagc gccgncagca ccgncgncga caggcgcgcc gnetgcaact 180
 gcctcaagaa cgccgccagg ggcgtcagcg gccttaacgc cg 222

<210> 18304
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F6

<400> 18304

gctggaagct ccagttgttg ttgttacagg tgcattctaga gggattggta aggcaactgc 60

tctagccctt ggaaaagcag gatgcaaggt tctggtaaac tatgcccggg cctcgaaaga 120

ggctgaagag gtctccaaag agattgaagc atctgggtgg gaggctatca ccttcggagg 180

aaatgtttca aaagaagctg atgtagagtc tatgatgaaa gcagctctag ataaatgggg 240

aacaatagat gtgct 255

<210> 18305

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H5

<400> 18305

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cttcttccga cgcggctggc tccatcttca ccagcaagct tttctataat gcagacgaga 120

gcacttcatt ctgcgattaa atcagcacta gtgttgacata atggtaccta ttgcgtttgt 180

cgtacgagct ttattgggca tatcaggata tgcaggacaa ggaagtgggtg ttagtgatgc 240

tagttcaaag aaggcacaaa agctcaagct ctaaattgat gagaggaagc tgctttaaac 300

tagctattta aatcatagtt gtttttagcaa atctagacgg tt 342

<210> 18306

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H7

<400> 18306

attccggggtc gaccagcgtc cgagaagttg aaagttggat ttggttcattg tcccaattaa 60

agaagctggt ggggaacatg gactactcgc tatttgttca gacgcttaaa aaggattaat 120

gcatgcagtg acacattggt tcccttatgc tgagaagagg gactgcttcc gacattctcat 180

gggcaactat gtcaaaagct actcaggttc cgaacacat 219

<210> 18307

<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-H9

 <400> 18307

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 tgttttctgc tggtaaaagt tgttttttac aatgatcatg tattgagtct tgacagatat 120
 aaattttaca cttgagccat caacagtagt gatgaacctg ccatcctggc ttactttctgc 180
 actagtgaca gaagccttgg tttcaagagt ttggacaatt tttccaattc tcacatccca 240
 tagcctgcac agtaccgtaa aaattaatta aaaaggaaca taactatagt aaatatatag 300
 gccaacccagt ataaatgttt atcattgatt gaagcatttc taacatgcac acaccttact 360
 ccacccatgt cagtgcagga actcaatata gtttggtcac tatgaagcca aggagcagtt 420
 cggacaacca ggtgctttgt caagc 445

<210> 18308
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-025-Q1-K1-A10

 <400> 18308

 caacagaaga gcggcgggctc gtattgagga tgagcaggcc gaggacgagt tgtgccaaag 60
 gtcaatgggt atctcgggtg actcgatgca caatcagccg atccaccggt ggaaagcata 120
 aagcctggag gaagaaacga aagtattagc ttggtcgtca gccaaccaac accaagttgt 180
 caagcaataa gacagttagg aaggtccgtg ttcgtggagg taatgtgaaa tggatggctc 240
 ttgccttga tactggtaac tactcatgga gaagtgaagc tgttaccctc aagacc 296

<210> 18309
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-D11

 <400> 18309

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 gatgggattg ggaggccgcg accttattgg cattgccgac acaggatcac gcaaaactgt 120
 cgctgacgtt cctgctgctg ctgctgatgt gaatgcgcag gctattcatt gccatgacca 180
 tagtgcaatt ctcttcgtgt tagctgctac acatagactt gctaataaca tatagcaaga 240
 accagggcag aactgctgca tacttcctga ctgaccgtac ttggatatat gtgcactgtg 300
 ccaaaagggtg cacaatttcc tgatctttac aaaagtgttg aaattgctat agctacacc 359

<210> 18310
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D12

<400> 18310

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 gcctgtacat ccatecaagc tccccatgc cctcaccacc gccgagtaac acctctctct 120
 ccgactccct tgccttgact gattctaata attcgtcgaa cgataatctc ttattcccct 180
 gtcttcaacc gtaactgcaat atcctgaatc tatctttgga cttttcccca acgtacatat 240
 cggcctaacc tgcagtggct cctaccgtct 270

<210> 18311
 <211> 160
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-D3

<400> 18311

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 atgtccagtg gctggaccag aaatcttgga nagcctgtac aaaaataata ctcatattgt 120
 aaatatatag cttgtctttt tcccccccc tataattaac 160

<210> 18312
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D4

<400> 18312

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gagatgggac actagggaga ggaagacggc tctacagaac ctggaacagt tccaggacaa 120

ggcaaagaag gaaaggctgc ggatttggca gtacggagat gt 162

<210> 18313

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D5

<400> 18313

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ttaaatactc atacaccaaa agctgatgag ccggatgctg atctaagtga ccaatatgct 120

gtactggtat ctaatcgctg taattacaca gaatcgaaac ttttt 165

<210> 18314

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D6

<400> 18314

ctccactcgc cgcaggccgc cgggcgccgc cgaggggatc ggagcaagat gttcttccac 60

atcgtgctgg agcggaacat gcagctgcac ccacgacact ttcggccgca cctacgcgac 120

aagctcgttt ccaagctcat caaggacgtc gagggcacct gcagcgggcg gcacggggtc 180

gttgtggcga tcacgggtgt tgaagacatc ggcaaggggc taatactggg aggcaaagg 239

<210> 18315

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D8

<400> 18315

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 agtggcggac gaacagggga gtcgtggatc gcgtgcacac agcaagggt gaatttg 117

<210> 18316
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D9

<400> 18316

ataaagcacg gaatcttact ttgtcgaacc tatccttttc caatcgcatc gctggcccat 60
 gggattcgat accctgcacc ttattgtcat ctcatagaca ggatcaatga aaactcttgc 120
 ttacctttta cctgtcatta ttcattctcaa tgcgcggtct attcttttcc ccgtctatca 180
 tc 182

<210> 18317
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E1

<400> 18317

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 caccgcctg gcggaccgga cgccacagaa cgggcgcacg gtggcccggg tcgggttcgg 120
 gttgggcggc aaggcgaaac ctgctccgaa aaaagggggc aaaacatcga acctcttttg 180
 accggccggt tgggttcccc gggccctggc ccccggaattc cttgaagggt tgggttgccg 240
 ccaattacgg tttcaaccg tcgggcttcg gaaggccctg gaggaccttc aattccagg 300
 ggacttgctt gaacaaaacc ttgccagaa ttaaggccgc cggattattg ggaccgggt 360
 cgaggctctc caagtcaaat tcaaccggtt gcaaccc 397

<210> 18318
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E10

<400> 18318

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cgttgggtgcc tttaatcctg tgaagggaga gatagtcctc tcacaattta gccttgacaa 120

ctcctggaac agagctatga ttgttaatgg acctcgctct gtagaatctc taaacgacaa 180

gtttgaagta ttctatattg actatggcaa ccaagaggtg gttccctaca gtcgtctacg 240

acccgtggac ccatctgttt cctcttctcc tgctcttgct cagttatgca gccttgcttt 300

cataaaagtg ccagtccttg aggatgactt tggtcaggaa gcagcagagt atctaagtga 360

atgtttgctc agtagctcaa agcaatatcg ggcaatgatt gaagaacgtg atgcttctgg 420

gggaaaatca 430

<210> 18319

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E12

<400> 18319

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gcggccaatc gcagcggagg aggagggcgg gcggcagcgg cttcgaatcg ctcaagcgtc 120

tgggtcacat ctcacccgct gtgcagtccc acctcaaaca tgtgtacctc acctatgct 180

ccgcgctggc cttctctgca ctgcggcgt acctccacat cctcctcaac gtcggaggcg 240

ccctcacgac cgtgggatgc gtggcctcca tcgccttct catctccctg gccgcttcac 300

gggaccagga gaggaaccgc ttggcgtgc tcatgtctgc cgcgctcctt caaggcgcgt 360

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tcgtcgggac cgcagttgct tttgcatgct 450

<210> 18320

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E3

<400> 18320

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 ttccccagca tttgtctctt tccaatggcc ttggcacaga gtcacttaac aatttagttc 120
 aaatcgtggg ggttcccagc ctgtattttc taattgatta tttttagttt cgatctaaaa 180
 tccaattctt gcatttggca aaaaatttct aactattttg ttggtatgat tt 232

<210> 18321
 <211> 241
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-E4

<400> 18321

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 ccgccgcctg ctctcttcgc ctctgccaca cgtcaccatc cgctgcaacg gtagggccgc 120
 gatgactccg gcggttcggg tggggaatcc tcgcgcgcc ggtccggggc cgcggtgggt 180
 ggaggacgna gaggaggcgg cggtcgcttg gcgggagctg cgcggaagg cccgcggagt 240
 c 241

<210> 18322
 <211> 116
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E6

<400> 18322

gtcacgtgac ttatattggt gtacgcatta aggtcggcct gaaaaggatc agatcatgtg 60
 tagaaacaat atagtttagt gaaaaattgg acccggcact atgaccaata attatg 116

<210> 18323
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E7

<400> 18323

gtgaccgtca gcctgcccgt cgccgggtgtg cagtgaggtc tgtggccatc agcggggccag 60
 ccgtcgattg gagccagcac cgcgaggctt gttgccgtcg atcgttgatt ggagccgccg 120
 tccgacgagc cgtgggctcg tggccgatgc cgccgtcaat taggggtcat cagtcgctga 180
 ttggagttgt cgcccgatga ttggtgggtt t 211

<210> 18324
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E9

<400> 18324

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 tggaggggcca gttccagggtt ggcaaggagg aggtcatcca agcatggtac atggatgaca 120
 gtgaagagga ccagaggctt cctcatcatc gcgagcccaa agaattcatt cctctcgaca 180
 aactttccga actaggaata ttaagctggc gcctaaatgc tgatgattgg gagaatgatg 240
 agaacctcaa gaaaattcgt gaagccaggg gttactctta catggacatt tgtgatgtgt 300
 gccagagaa gttgccaaat tacgaggcta agataaagaa tttctttgaa gaacacttgc 360
 atactgatga agagatacgc tattgccttg agggcaagcg ctactttgat gtgagggacc 420
 aagatgatca gtggatc 437

<210> 18325
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F1

<400> 18325

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 gccaaaaca ttcgaagctt attcgatgtc ttgcggggcg ttctggaatc tgaatcttca 120
 atctt 125

<210> 18326
 <211> 421
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F10

<400> 18326

atggcaggtt caaggacatt ttccaggagg tgtatgaagc tgggttgaaa accaaatttg 60

agagctgccg gcatatggta tgagcaccgc cttatcgatg acatggtagc atacgcactt 120

aagagtgaag gagggatatgt ctgggcttgc aagaattatg atggagatgt gcagagcgat 180

ttcttagctc aagggttttgg ctcatgggtt ttgatgactt cgggtactgggt gtgccctgat 240

ggaaagacga tcgaagctga agctgcccat ggtactgtta cccgtcatta ccgtgttcac 300

cagaaaggag gtgaaaccag tacgaacagt attgcctcaa tctttgcgtg gacaagagga 360

cttgcacaca gggcaaagct tgatgacaat gctagactac ttgacttcac ccagaagctt 420

g 421

<210> 18327

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-F11

<400> 18327

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atgtccagct gtgtccttca gctcggctgg ctcatcatct tccttcaacg atgaagtagt 120

catggctgaa atggttgtgg tggctgcacc agttgacgtc cactaccctg aatctggcaa 180

accagggtag ctgatcaata atgtcaattg tcgcagtttt catcttcgcc gccatcatta 240

ttttgctggg tttgtaagtt aagttccagc atttggtagc attgatcatt ttatgagaat 300

tgaggctcca tctagaattt gctgagatgt gatctctcag cctttagaac ggagagcttc 360

catgccttaa gcattgtaat tttgaaccga ggctattggc aatgcaagtt ccccaaaaaa 420

aaaaaatann aaaaaaata aa 442

<210> 18328

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F12

<400> 18328

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ccagaatctg tatacagaga gatctcattt ttctttctgag aagctgaatc cgtatctgtg 180
gaacatgatg agctatagac gccacactgg tatcagtgtc aatattgtcc ggctcactgg 240
acaccatatt gagtagtata gactctgctg ctttttagcgt tcgtcatgct tcttttatga 300
actaaacccg aagactctgc tatttgaaga ggtgatgtca agtgtgacat aagacatagt 360
catttttaag gctaatttgg aaatcttatt tcttttaata aaattttatt tccttaacga 420
aatttagtta tttttctt 438

<210> 18329

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F3

<400> 18329

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<210> 18330

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-F5

<400> 18330

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ctcgggggag acgccgtctg cccggggaga cgctcgagaa cctcaagctc ggcatcaagt 120
ccaccaagaa gctgtgcgt gttatgcttg acacgggtgg accggagctg ca 172

<210> 18331

<211> 443

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-A12

 <400> 18331

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 ctgaggaaaa gcatctgaat gagacattca taaaggacag tatccctccc tggttggcag 120
 gatctggtta cattggcctt gcagcaatat cgattgcaac cgtcccaatg atctttccgc 180
 agatcaagtg gtacctgtgc ctctcgcat acgttggtgc tccctcctc gctttctgca 240
 actcatatgg cactggacta acggactgga atcttgcgtc tacatatgga aagatcggcc 300
 tcttcatttt tgcacatgg gttggtcaga atggcgggtg gattgctggc ttagcagcct 360
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 gttacctnac actctcttcc cct 443

<210> 18332
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-A3

 <400> 18332

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 ggtacgagcg cgagttccgc gagctcgcaa agggcgccgg cttctccggg ttcaaagcca 180
 cctacatcta cgccaacgcc tgggccatct agttcatcaa gtgaaccacc gtcgccgtga 240
 tgagatggca tggctgccac aaaccttgtc tgcttggtcc tcgaatagta cgtcgccgtc 300
 ctgctcttct tct 313

<210> 18333
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-024-Q1-K1-A7

<400> 18333

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gatcatcatc atcatatcat agagcacaga catttgcttc ggttttaatg acaaggcttt 180

ggcgaatac 189

<210> 18334

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-A9

<400> 18334

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acttcgccgg cgccgcctac gtcgtcaacc aggcaccgaa gatgggcaag tgcgacctcc 180

catcgacgac ggtctgagct gaagcagcag cggcgaggac cgtaacgtca gcggccatct 240

cgaggaacaa aggaatcgat ggcatgcagc agcagctcag ctcatcagtc gccctagaga 300

ctggagactc tgggggacgc cggaatcttt gccaccctt tcagactttc tttaccgctg 360

cagctgcagc tttgactcca gccggagcga cgccgtaaaa cgaacatcgc tgtactaggc 420

ggtagctgta cgct 435

<210> 18335

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B1

<400> 18335

ccttcttctc ccgctccgc agcggctagc ggggtgcgc ccggcgggca ggctcgtcct 60

cgccgcactc ctgcgcggcg agcgcgccgc cgttcccgtc cccactccca ctcc 114

<210> 18336

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B10

<400> 18336

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ggcagcagcc ttccccgggtt cagcttgccc ggcagcggca gcatgcccct ctteggcggc   120
ggctccccgg gcttcagcgg ctteggcggc atgcccggt cccccaccgc cggtccgctc   180
cccagcacg ccaacaagcc ctgaactccg tctgtccgct cgatccgctg ctggagcgag   240
gtcgggctag ccagcgtgcg tggtagtaga gtgatggtac tgtagtacgt cgtcgtcttc   300
atgcatgcgt ggttcgtggt ttcccctagc tccatacgag cagtagttgg gccttgacg   360
taccgtacgt ctagctagct atatatatag cttgtgttct actgcttttt agtttaatta   420
cctgcctgca ttgg                                                    434

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<210> 18337

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-024-Q1-K1-B11

<400> 18337

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gtggtcgcgc accggagccg gagccggagc cggagccggc ggccgtgtgg tggctttccc   120
gttcccgttc cagggccact tcaaccgggt gatgcggctg gcccgcgcg tgcacgcccg   180
gggcctcgcg attacgtct tccacagcgg cgccctggac ccggccgact accccgccga   240
ctaccgcttc gtgcccgtga ccgtggaggc ggacccgaag ctgctggcgt ccgaggacat   300
cgccgncatc gtcaccacgc tgaacgccag ctgcgacgcc cccttcaggg cccgcctctc   360
ggcgctgctg gccgccgagg ggagggacag cgtccggtgc gtcttcaccg acg           413

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<210> 18338

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B12

<400> 18338

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tacacttgta tcgtactccc agctctcaaa ctgggacaag tgctcctcat gggagggctt 120
caaggtgtca ccattcaccg caggagcgag gacattcagc ttcgatgcaa atccatgcga 180
ttacttccag ggtggcaaga ttaaagcaac gacctctctc ctgtcagtct tgggtggccat 240
tgagatgttc aactcactga atgcctgtc agaggacggc agccttgtga gcatgccacc 300
atgggttaat ccgtggcttc ttctggccat gtcggtttct ttcgggctgc atttcttgat 360
cctctacgtg cctttcctcg ctcaagtgtt tgggatcgtg cccctcagtt tgaacgaatg 420
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<210> 18339

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B3

<400> 18339

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ttagggcgtc gacagattct gaaactcggc gaactacgga catggctcac gtcgccgatc 120
ccgtccccgg attctcttgg cgccgacgcg aggag 155

<210> 18340

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B4

<400> 18340

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tgctcgccgg cactgacgcc gccaggtccc ccgggtctt cgccgtccc tattcctgcg 120
cacgcccttt cactcggtc cacttcgtcg ccggcccggtg gggc 164

<210> 18341

<211> 213

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B6

<400> 18341

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 tcggttgtgg cggggtttggc caattgttgg gatgtgccag gaggaacatg aacgccgagg 180
 cagcttttag aggtctttat gtggccatca agt 213

<210> 18342
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B7

<400> 18342

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 actcggtcgc tggaccgaac acccgccggt ggtgctcttt ccgctgctt tttccggctt 180
 cttcttcgcc gcccgccgcc cgcggggccc ttctgaagg ttcc 224

<210> 18343
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-B9

<400> 18343

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 ccaccacgcg atcaccgacc gacgcctctc cgacgagcaa ctcaaccccc caccgcgcac 180
 gcgagagccg gatccccacg atggcgacga tccagcacca ggcgaaaccg gccgtggcgg 240
 cggcaccgag cagcactact ggcggtgggc aacgcgcgat ggacctctac gagaagctgg 300
 acaaagtcgg agaggggacc tacgggaaag tgtacaaggc gcgggaaaaa gcgaccgggc 360

ggatcgtggc

370

<210> 18344

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C1

<400> 18344

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gctgaggtca tgcacacaggt cgtgccgctg ctggagccgc cgctccaccg gtgcgtcgtt 120

aagagcgtcg atgtcatgga ggaagtgggt gccgtggcgc c 161

<210> 18345

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C11

<400> 18345

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ccctgaccgg agcccgtacc gccggctcct actacatcac cgccgcattc gtctgccttc 120

gtcgctcgc taccaaggtc gatatcgacg agatcgacct caccgaggaa gacgctggct 180

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t 241

<210> 18346

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C12

<400> 18346

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acagcacgtg tgtgttctgc caccatctgc tcgatgaaat catgtccaaa ctgaaagatc 180

cagatgcgga gtttgagata attcagattc ttgtcaagga gtgcaataag atcgaaggtc 240
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agctcgtcct cttccttaat gaggttctta agagtgtttc ctcagctgta ttggttacct 360
ttactacttt ggattttgga aacagtccga gacccttatt agttaacaat atcatagttg 420
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<210> 18347

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C4

<400> 18347

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<210> 18348

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C5

<400> 18348

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acctgagcgt gcaggagctg gcggcgctcac tgggcgcgct accgccggag ttcgtgcggt 120
ctgagcagga ccagccgggc gcgaccacgt accgcggggc cagcgtgccg gacgcgc 177

<210> 18349

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H9

<400> 18349

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aatccagaga tgatgatgtt gatgctgact tttcacaacg caagtctggg caaagtagtt 180
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ccaaaattga ccctgagcag atacgagctc gtgctaagca ggctgtccaa gaccagcgtc 300
ggctgaagat gaacaagaaa ttgcagcagc tgaaagcgcc caagaagaaa aaccttcagg 360
cgtcaaagct cagcgtggaa ggccgtggca tgatcaagta cctgtagatc acccactgtg 420
gcatccgcag tcagcagtgt cctgcacatg atacagcgcc tgcagggatt gctgaat 477

<210> 18350

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C7

<400> 18350

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acccgccgat ccgcgctccg cctcctccc tcgggcgcgc gtctgccagc ttcgcttcca 180
agatgcaccg aggccttacc tgctccgtgc gaaggccggt tc 222

<210> 18351

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C8

<400> 18351

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tatatgattg ttttgaaaaa tcgagggagt gtgttacttg actatcccca atcacactca 180
taaaaacttg 190

<210> 18352

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-024-Q1-K1-D1

<400> 18352

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acgcgaatct aatcgacacc tagccgagat gggccgcaag ttcttcgtcg gtggcaactg 120
gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaangaca 180
g 181

<210> 18353
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G10

<400> 18353

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ttcggattca ccagaatctg cagacagaga gatctcattt ttcttcggag aagctgaatc 180
cgtaactgtg gaacatgatg agctatagac gccacactgg tatcagtggc aatattggcc 240
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ttttatgaac taaaccgaa gacgctgcaa ttgaggagg ggatgtcagt tgtcacagag 360
gagagagtca tttttagggc tagtttggaa atctcatttt tttcaagaga tttttatttt 420
cctaaagga attagtttaa ttttc 445

<210> 18354
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G12

<400> 18354

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aaggggcggg cgatcgctgg gagcttcgtc agccgcgtcc tggccggcaa ggccgccttc 180
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 gtgatactgc cggacaatgt gatcggcggc gcggggagcc ccgacaagta ctggagcccc 300
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<210> 18355

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G2

<400> 18355

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 gtggtcttgg taggagtaac aatagtttct ggcagccgtc ttcctcctcg ctctctaccc 120
 taggagagga gaggagagga gaggagagaa atcctgatgc taatcttctc aagacgcata 180
 aagcgtgcct atatacaatc gactaaacac aga 213

<210> 18356

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-023-Q1-K1-G3

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 caaccgtggc ggcgggctac gcaactccga cgggaactgg aggaactgag cggtggnngcc 240
 cgcgcggcca aagtatcctg ttcgctaacc ggggtggttaa ccttaatcca aatggttaac 300
 tttggtcggc ttgggggttg tggtggccat ctgggggtttt gaatggaagg cgctttgggg 360
 caattggtg 369

<210> 18357

<211> 368

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-G4

 <400> 18357

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 gggcgctgct cctgctgggt gccggcgcg cgctgggact gatcggtgcc gcgctcgcga 180
 gcgcgcgcgc ggaggccgcg ctgaaggctc gggtctacca tgcgacgtgc cccatcgcg 240
 aggacgtggt cctcgccgag atgaggctca tgctcatgga ggacgccacg gtcgcgccgt 300
 ccctgctacg gatgcactac cacgactgct tcgtgcaagg ctgcgacagg tcgatcatgc 360
 tccagtcg 368

<210> 18358
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-G6

 <400> 18358

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 gtcagcgctc ccccccaact gcctgttct cctcctcgtc atgtcaaga cgccgaaggc 180
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 cccagccccg ggggcatgtt ctctcggtg ccgcacggcg tgcacgcgct gcgcctcggc 360
 agccgcgcgt cggcgctcga gaacgtgacg gtgcggccgg gggcgctgta cgcgc 415

<210> 18359
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-G7

 <400> 18359

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tatgcagcta tgctgtatgg cttatgggta tgagcgccac aaatttggtt gtcaagattc 180
tggatgatat acttatgcat tctgacataa taggaggcaa aacctcaaga ttttccttat 240
ttttatttta tcaattacag cattttctg 269

<210> 18360
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G8

<400> 18360

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cggttcttga tgtggagggg gggccgctg gcgctgctcc tgctgggtggc cggcgcgggc 180
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ttctaccatg ccacgtgccc catc 264

<210> 18361
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G9

<400> 18361

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ggccaacggc aacggcgagc agaagacgcy gcaactccgag gtcggccaca agagcctgct 180
caagagcgac gacctctacc agtacatcct ggacacgagc gtgtactcgc gggagccgta 240
gagcatgaag gagctccgcy aggtcaccgc caagcaccca tggaacctga tgacgacctc 300
cgccgacgag gggcagttcc tgaacatgct catcaagctc atcggcgcca agaagaccat 360
ggagatcggc gtctacaccg gctactccct cctcgccacg gcgctcgccc tcccggagga 420

cggcacgatc ttggccatgg aca

443

<210> 18362

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H1

<400> 18362

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acgcgtacga cggccacaac ctcacatcc acggctacca ggacctctc ttcgagaagc 120
actcctggat tgcactcaac accggcagct tcctcttcag gaattgccag tggtcgcttg 180
acctcctgga cgcgtgggcg cccatgggac ccaaggggtt catccgcgat caggcgggca 240
aggtactcac ggcaaacctc aagggccggc cagcatttga ggccgacgac cagtcggcac 300
tgattaacct cttgctctcg caaaaggcca agtggatgga caagtggttc attgagaatt 360
cctactacct gcatggcttc tgggctg 387

<210> 18363

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H10

<400> 18363

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gttgcgctac cagctggata tccgttcttt tgatgagctt tctgatgatg acgatgtgta 120
tgaagactct gactagcaat cagccaatct catgcctgtg ctggcccatg gaaggacgca 180
acagctcgac ctaccatac ctacgcagga gcacacgaaa agcaactatc caaggattaa 240
tgggcatggg ccagcgtcgt cctcttcaag aggagcttaa gactaagatg attttgagtc 300
acaatcatgg gagtaacgtg acaagaagat accctactat atcacaatta ttccagtaat 360
gcgtcgagaa gataccgttg tttaagtgc caaaccaata cagtgcgtg ccaagaaagt 420
accgtatattt aaagatgttt aattttc 447

<210> 18364
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H11

<400> 18364

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gcaccctgtc ggtgcaaggg ccctgctcg ggttcacggg caccatcgag cgcgccgtgg 120
tcggcggcac cggcaagtcc aggtggcg gcgggtacat gcttttcaag atgataagca 180
agccgacgcc ggagactgac gtcaacgaga tcaacctgtt cgtgctcatg caccgcgtg 240
gcaagtacta tcgcacacac cttgagactc gagtgagtgg ctactaccgc attgttggtg 300
ggcacgttgg gtgaagtgtc tatggccaat ccaactcttt cagatttggg tctcttggtg 360
aaaccaata aacatgcaac ttttttg 387

<210> 18365
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H12

<400> 18365

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tctgagatag gtgatgagct agtatcacct tgcattgtgca agggaaactca gcagtttgtt 120
caccgttctt gtcttgacca ctggcgatct gttaaggaag gatttgcatt ttcacactgc 180
acaacttgca aagctcagtt tcatcttoga gtggaaacct gggaggataa ctcatggcgt 240
aaaatgaagt tcacggtctt tgttgcaagg gatgttctac tcgtatttct tgctgtacag 300
cttactattg ctatcatcgg tgcgattgca tacttttttag acagggatgg aagtttccgg 360
aacagtttta gcgatggttg ggaccgcttc ttgtcaaagc acccaatacc cttctacta 419

<210> 18366
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-H2

<400> 18366

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tacgtgaacc ggcacaagg gctaatactt acgtgcaatg gtcttggtat aagggtactca 120

gtatggtgaa cacgctcaag ggccacagc ttgcactcat ctgcagtctt ggagaatctg 180

taatgtgggg ccagtgggga tgaaaataat ttctgatgac atacagggaa gcctttgatc 240

tgaaaatggt atagtgcac agtgccatgt ttgaaagcca aatattgacc acttgagttc 300

atcctacaag ggtacaacag agttgatttt tatttgt 337

<210> 18367

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-023-Q1-K1-H4

<400> 18367

ggaggagcgc tggaacgacg gccgcgcgct gccggagccc ccgacccccg gcgcgctgaa 60

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gcggcgccctg gtggcgcgca gcaacagcgt ggccaaccag agcagccgga tgctcgctgtc 180

gtcgcggtcg cggaggatct ttgacaggct gtgggctggc ggagcgaagc tgccccggga 240

ggccgncgcc gcgggcaaag ggtcgtcgga cacg 274

<210> 18368

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F9

<400> 18368

gcacggacca tggacgcacg tcttcctggg cttatctatc cttgggcctg ttccgcttgg 60

ccggtgaaca tgaactgcat ccgtggcaga gtgcgaccgc tgctgcagct gctgctgaat 120

caagtcatgc aactgcatgt cccttaactt ggagaccgcc gccctagca gcatcacgac 180

catagcccta gctgcgccg 199

<210> 18369
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-H8

<400> 18369

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 ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc aaccaccaca 120
 agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180
 ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
 agcacctcgg cgaggccggc gccatcgccg nccggcgctt cgcactctac gagaagcacg 300
 aagcgaagaa ggaccccgag cacgcgcaca agcacaagat ca 342

<210> 18370
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E2

<400> 18370

cgggccacct cgttccccat ccgctcaggc caatcaacag aagtgacgcy agcacgagca 60
 cacatccccct ccttgcttcg gttattcctc gttgcgtgcc ctgcgcgag acctctgcca 120
 tggcggacca gctcaccgac gagcagatcg cggagttcaa ggaggccttc agcctcttcg 180
 ataaggatgg cgacggctgc atcactacca aggagcttgg aacggtgatg cgctcccttg 240
 gccagaacct taccgaggca gagctgcagg acatgatcaa cgaggtcgat gcggatggca 300
 atgggacctat cgac 314

<210> 18371
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E3

<400> 18371

gttgattgct gggatgatg acaatggccc acagttgtat caggttgatc cctcaggagc 60
 atactttctcc tggaaggcat cagccatggg aaaaaatgtg tcaaagcaa agacatttct 120
 tgaaaagaga tacacagagg atatggagct tgatgatgcc atccacactg caattttgac 180
 tttgaaagaa ggatatgagg ggcaaatttc ctccaacaac attgaaatcg gaattattcc 240
 aactgaccct gaattcaaag gtctaagccc atcaaaaatc aaggatttct tggaagaagt 300
 ggaataagtt ggctggatg gattttactgg ttcaaaccag aatagcagca tcacttatga 360
 gcagccagcc tgaaacttgt cttgggttta tcactctgta aactgaattg ctccagcgac 420
 atg 423

<210> 18372
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-023-Q1-K1-E4
 <400> 18372

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 gcgccgagaa gcgagcaaat actgttgagc tgatgaagaa gatgccccag atgctgctcg 120
 actacaagaa acgtaggtgg gagaagaaga tgaaagtgga ggagagcggc aagaattgat 180
 accacgcggc tcgtccaggg tgctttctct cctaaataag gtccaaactt tatccaggag 240
 ttttgcagga cggctagatt ctgacgcgtc attcccttgg tggattcctt ctctcctgtg 300
 aagcgacttt ggacgcacta tcctgattgt gatgctttca aacacttgtg ccaactggatc 360
 gggatttcag tgagcccaaa ttttgcagca ctagtatttt gttgagacaa atcagctata 420
 agca 424

<210> 18373
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-023-Q1-K1-E5
 <400> 18373

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gtacgggtac tccgagaccg aggtgggtcac cgccaccggc gagggcgagt acgagaggta 120
 caagaaggaa gaagaagaag aggcagcaat aaattaatct taagcagctg tgggagcagc 180
 agtagtagta tcagttcagg tccagtagcg gaaaaggcag gcagggcaaa gatttgggag 240
 gcctttttgc aatccatctg ccccatcata acccacttcg atctatccat gttagcagta 300
 cgtgtccgtc cgtcctatag catcatgcag gatgcaaagg ttgccctgtg ctggtgaatc 360
 tttctgctat atactattct atttaattaa catat 395

<210> 18374

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E6

<400> 18374

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 ccatttacag aatctgattt gcaggagctc cagtcccgga ttgttgtagc agaaaatctt 120
 cctgggtgatc cctcctacca gaatcttaag aagatatttt cagctgttgg aagtttgatt 180
 tcaatccgaa cttgctatcc tcagactcca aatggcactg gtcttgcaac taatagatct 240
 tccaagttag atatgctttt tgctaacaag ctgcatgctt tcgtggagta cgaaactcct 300
 gaagatgctg cgaaggctat tttggagctc aatgatgaga aaaactggag aaatgggctt 360
 aaagttcggt tgctgaatac ttgcacggtg aaggggagcaa gcaaaggaaa aaacggaatg 420
 aatgaaactg a 431

<210> 18375

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E7

<400> 18375

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 gaaataagtg gcacattcta atcttcaatt gtattattcg ctctggcatt gaagtgggtc 120
 gaaactgcat tatactttct ccgcaagaca tgagcatgga ttatgtttta acaacagatt 180

atttgtagctc ttgattcttt ggttccatgc tctcttcggt catcttcatg ttaatttgct 240
 ttgcaaacca tttaatatata acagtgcggt cccctggaaa tttccaaatg gttatatgcc 300
 ttttgactat tggaatttgc attataattt gcaaaccaaa aaaaaccctt ctttataaac 360
 tacacacttg aaattcgaat ttaaaaaggg caa 393

<210> 18376
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-023-Q1-K1-E8
 <400> 18376

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 tggacctact atcaggactt gcagaaggctc ttggcgctgg tattgaaagt cttgttgcac 120
 agagcaattt gagagatcta cttttgcaat gctgcatgga tgaagcagct gatgttcgac 180
 aaagtgcctt tgcacttctt ggagaccttt ctaggggttg cccaatacat ttgcatccac 240
 gccttcaaga atttcttact gttgcagcga agcaactgaa ccctcaatct gtgaaagatg 300
 cggatatcagt agctaacaat gcttggtggg ctattggaga attagcaatc aagattggca 360
 aagaaatagc gcctgtggtg atcaccgttg tttcgtgctt ggttcccatt ctaaaatccc 420
 cagaggggttc ga 432

<210> 18377
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-023-Q1-K1-E9
 <400> 18377

agacaagaaa acacctgtat caagccaaca accgtctccc tgtcacagta caaacactca 60
 tcaccactcg agcactccac acaagagtaa gcacgcaaac gacaagctct tttcatatct 120
 acaggaagct tatctttggg tcagggttag ggatttctgt atacaccaac tgcagcgact 180
 gcaggtaaga ggggccgctc ctatggttga tatgcactca aaaaattaca tgaatcagct 240
 aactcagtg aggtcgatcg agcagattag gaaacgcttc acaccagca aatgggttaca 300

gcttttatta cctgtaccac agtctccggt gagaaaacat gaagccgtgt gatgttagtg 360
accaccaacg tggcgaggca aactggtcta caattgtgtc gggctctgct tttgggta 418

<210> 18378
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F1

<400> 18378

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gctgaatcct gtgaattttt ccatgaccca tccatgaaat caagtaatga aggaacgggtg 120
aaaaaatcgc tgtcgatcac tccacttggc agtgacagtg gatactttgt taatataacc 180
gttgtgaaca gtgcaaaaag gactaatgat cgtctttcaa tccctattac aaaaacttaa 240
tttgggtggga tcccgacaaa ttttaatttt ggattggcac atattattgg ttgggaccaa 300
gctttaacca attaacattc aacttcaagt tcttcaactt gcaacaagcc caccgtagaa 360
cgttcacacc cggatttcga atgggaaaag tgaaacttcc ttttaa 406

<210> 18379
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F10

<400> 18379

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gaggaggagg acgccactca tctatgacct tcgaatctat cacacttaat agtcacatct 120
gacccgctgc gcattgccac cttaaacaatg tgtacctgac cctatgctcc gcgctggcct 180
tctctgcact ctgcgcgtac cttcacatcc ttctcaacgt ccgaggcgcc ctaacgaccg 240
taggatgcgt tgcttccatt cactttctca ttttcttgcc ccctttaccg gaccaggata 300
ggaacctctt 310

<210> 18380
<211> 453

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-F11

 <400> 18380

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 tgtgtatgtc ggcaacgtgc catcatctgt aagtgaggct gatcttgaaa atgagttcaa 120
 gaaatttggc cggcttattc ctgacggtgt tgctatcaga agccgaaagg agactggtgg 180
 ctattatgct ttcgtggaat tcgaggaaact cagcgggtgta cacaatgcgt taaaggcttc 240
 accaattgaa ataaatgggc ggcagatata tgttgaggag aggaagccaa atagcggaat 300
 aagaagtgga aggaggggag gacgtggccg tttcagtggg ggaagccggg gatattcgag 360
 aggtggaagc gacgagtaca atagtaaccg tgggaggtca aacggttacg gtcgtgctcc 420
 taaccaaag aggggcatac ttgggagcca cac 453

<210> 18381
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-F2

 <400> 18381

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 gctatcgga cttgcacaat gtctttactc tcttattaaa agtcttggtg cacaaaccat 120
 tttgagagat ctacttttgc aatgttacat tgatcaagca tctgatgtct tacaatattc 180
 cctcgcaatt catttacacc tttctaggaa ttgccaaata cattttcatc cacaccttta 240
 agaatttctt ac 252

<210> 18382
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-F3

 <400> 18382

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 ctgcctggg ccacggacga cactccctc cacaacgct tcagcaccta cggcgaggtc 180
 ctcgagtcca agatcctcct cgatcgggag acgcataagt ccccggtt tgcgtttggc 240
 acctttttca acgaagaagc caatccggac cgccttcaag gccttaaccg gaaggaaacct 300
 gaccggccca acattac 317

<210> 18383
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F4

<400> 18383
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 agacttcgag gccgccgtct gcctctgcac ggccatcaag ggcaacgtcc tcggcgctcg 120
 cttcgatgtc cctatcaagt tcaatgccct cgtcaactac tgtggcaagt gcgtgccccaa 180
 gggctacatg tgtgcgtaag ctccgcgcgg ttacacgtc gtagccgttc gcgtgcgtaa 240
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 ttgggcacct taagttctac agtcctagaa ccatattcca aggcaattct tggcagttca 360
 catgtattgt ctcttggtga atttctattt ttt 393

<210> 18384
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F5

<400> 18384
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 gcagtcgctg atctacgcgt tcgtggcccc tggcacggtc atactggccg agtacacgga 180
 gttcacccggc aacttcacca ccatcgcctt ccaatgcctc atgaagcttc ccggaaggca 240

ccaccagttc aactaacact ggcaacggca caatttcaaa taacttgtgg aaaaacgaat 300
caaaaaacgg ggtggtggtg gtgaatcggg tgggccacca attcctaata gttt 354

<210> 18385
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F8

<400> 18385

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gcttgcgcaa ttgtatgtat gccctgtact tgcgcgtgta tgggtttcgc tgtgcaaatt 120
ttcgttgggt ccccgattg attgaggcgt gtgtgctgtt gtgtctcttc tgaatctgaa 180
tggaaaatct gtaacctgag ctaaaactgc tcgtgtacta cccaatagtt gcttcaaact 240
acgatggatt tttttttcaa actatcactt ccaaacacgc acaaatatgt actgtatttc 300
tcaatcaact aaggatcggg gaaactgggt tgtaaagggg attttgtaaa caccagtcaa 360
tcagacatgt aactcgacat gggccta 387

<210> 18386
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-E11

<400> 18386

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actttatgac atttgcttcc gaactctgaa gctgacgacc cctagctttg gagacttgaa 120
ccacttgatc agtgcaacga tgagtgggtg cacttgctgc ctccgcttcc caggacagct 180
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ccctgagcta acccagcaga tgtgggatgc caagaacatg atgtgtgctg ctgacccacg 360
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tgatgagcaa atgattaatg tccagaa 447

<210> 18387
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C5

<400> 18387

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gggcccacaaac tcaggcaaag atctatggcg aagacaaagg aagagacacc ga 112

<210> 18388
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C6

<400> 18388

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cgaaaaagat gccgccagct ctgcggcgaa cgatcctgct ggccgcggcg gcggcgacga 120
cggcggtgct gctgctgtgg ccggccgtct gcgtcgcgga cgacgacggc acgacgttcc 180
cgtcgtcggc gttcccccta tgcccgcgcg ggaaggccgg ggtctccacg gtgccgttcc 240
cctggtcgac gccgacgtcg tcgtcagtgg cgggtgtccc gcaagatccg gggttcttga 300
cggcggacgc ttgcgccgag ccacggctgc cgggtgctgc tgggatctct gatctattgg 360
cggatttgca gagacttgct cgcggttgct gccctggact ggatgcat 408

<210> 18389
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C7

<400> 18389

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tgcttctgtg tcccttctcg cgctcgaggc tgtggagggc ctcgaagagg ggccccgcgg 120
gcgccggctg ctggtcctgc tggacgacct ggccgtgcgg tcgtcgact cggccttctt 180

cggtctcgctc caggcgcgcg ggttcgatct cgaattcgcc ttgccacca acccaagctc 240
 ttggttgaac cgttcgggcc ggacccttac caaggccttg ggccggtcgg ccccttcaac 300
 ccaaggtttg ggggatccat ggacccaaac ccagtcctg gaattaatgg agcctggcct 360

<210> 18390

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C8

<400> 18390

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 tacagtatac tgacaaactc ttggacacga ggtgaggtga tgaattcttc tcggtgtcta 180
 tttgggtcag caagcgttgg ggagaacgca tatgttgctg gtggcactga ttcttttggc 240
 aggattctca gctcagcaga tctgtacaac ttggaaacac atacttggac accacttctt 300
 agcatgaata aggcacgtaa aaattgctct ggggtgttaa taaatggcag gttttgtgtc 360
 attggtggtg tgacaaacaa caacatgatc t 391

<210> 18391

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C9

<400> 18391

gtacgctctc agtctcgccc acggcacctg gccggcgaac gacacatgta cgcttcgtca 60
 atggctcaac accggcagcg caacttccag tcgtttgcaa ggacgtggct gcctctcgcc 120
 gatatgatct tgatgtgctt cgccgcttgc acgacggcgc agcagcaacc accgtcactg 180
 acgcagtcta cgacaacagg cactgtaccg ataccgagcg tgccagcgtg cctgccaacg 240
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 gagtgctgcg accagatact ggccatgttt cagtctcagg cgccctgctt gtgcgccgct 360
 ttggcatctg cgggtgcccgc ccatgcactc ggggtacgcgc tcggtcagct gctgc 415

<210> 18392
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-D11

 <400> 18392

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 ggcattgaga ggccgcgacc ttattggcat tgcagagaca ggatcaggga aaactcttgc 120
 ttacctttta cctgccattg ttcatgtgaa tgcgcagcct attctttccc ctggcgatgg 180
 tccaattgtc ttggtgtag ctctacacg tgaacttgct gttcagatac agcaagaagc 240
 aaccaagttt ggtgcatcat caaagataaa aagtacttgc atatatggtg gtgtgccaaa 300
 aggtccacaa gttcgtgatc ttcaaaaagg tgttgaaatt ggtatagcta caccaggacg 360
 actaattgat atggatgaat cacatcatc aaacttgca aaggtcacat a 411

<210> 18393
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-D12

 <400> 18393

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 ggaattccat accgtgctcc gccacctctg ctgagagcga gaagagatgg caggcaaggg 120
 tgatgggccc gcaatcggca tcgatctcgg cacgacgtac tcttgctcg gcgtctggca 180
 gcacgaccgt gtcgagatca tcgccaacga ccagggtaac cgcaccacac cctcgtacgt 240
 cgccttcacc gactccgagc gcctcatcgg agatgcggcc aagaaccagg tcgccatgaa 300
 ccccatcaac accgtctttg atgccaagcg tctcattggc aggaggttta gtgactcctc 360
 tgtccagagt gatattaagc tgtggccctt caaggtcatt cctgggcccc gtgagaaacc 420
 aatgatagtt gttcagcaca aggtggagga gaaaca 456

<210> 18394
 <211> 414
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D6

<400> 18394

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atggcgggcg tgcgcgtgag cgggaggctg cggacgctgg ggcgcggcgc gtcggggcgcc 180

gtggtgtcgc tggcgtggga cgccgcgtcg ggggagctgg tcgcggtcaa gtcggccggc 240

gcgagcggcg cggcggcgct gaagcgggag cacgcggtgc tggccgggct gcgctcgccg 300

catgtcgtgc gctgcgtcag cggcggcgag gcggcggcgg cggaagaggg gtcttcgtac 360

cagctctttc tcgagtacgc ccccgggcggg tcgctcgccg acaagggtggc ccgg 414

<210> 18395

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D7

<400> 18395

cggacgcgtg ggtggtgata gaaccaataa ggatgtttgt agctagctta taatgagggc 60

gtgaattgca gcttaatttg cttcactccc ctcctatattt ttattacctt ttctcttttt 120

gcaaagcaat attctcctta caatgtc 147

<210> 18396

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D8

<400> 18396

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gggagatggc ggagaatccg cagctgtttg ggaacgggat gccggtgccg ttctacggcg 120

agatgttcgt cctcgtccgc gacggcgctg agttccacgt cgacaagatc ccgtcagctc 180

ctggagggtca tgtgaaaaca aaaggcaciaa ttacctgtc caatataagg atggtgtttg 240

ttgccagcaa gcctgttggc aacttctttg cttttgatat gccacttggtg tttgtgcatg 300
 gtgagaagtt caatcagccc atatttcaact gcaacaacat ctctggattc gttgaaccag 360
 tcgttccaga caatcagaac agggccctgt actcaactca caccttcaag atct 414

<210> 18397

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-023-Q1-K1-D9

<400> 18397

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 tacaaaagct aggacacctg atgttgaaga taggggtgaa ccagtagcaa aagattccac 120
 tgctgcagca atgaacattt ctggagaagg ccctttcata aataataaaa caaattgggt 180
 agcaatacag aggcaattgt cacacttgga gaggcagcaa actagtctca tgaacatggt 240
 gcaggatttc atgggagggt ctcatgacag catgggtaca ttggagaaca gagtacgtgg 300
 tcttgagaga gttgttgagg aaatggctag agaaatatca ctctcctcag gcaggagaag 360
 tgggtggtcca gcgttgggct ttgattcatc tncctggcaga tcattctaac acaatgggtt 420
 ccatgaatat tctaattcga aatatggaaa gaagtgtgat gga 463

<210> 18398

<211> 236

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-023-Q1-K1-E1

<400> 18398

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 catagggcca ggaaaaactt tccagtcaac taaagttggc gacatcatga ctggagagga 120
 caaactgatc acagtgaatc ccgacaccaa agtcctgcag gcaatgcagc tcatgacaga 180
 aaaccgcgtc agacacatcc cggtgatcga cggcacgggg atgctgggga tgggtct 236

<210> 18399

<211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-E10

 <400> 18399

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 ggtccatcca ccgcccctcc cccatgccct caccacccgc gagtaacacc tctcgcgcgc 120
 cgcccttgcc ttgacggatt cgaataattc gtggaagaga agttcttatt cccttgccct 180
 cagccgtact gggggggcgg aatctctctc tggacttctc cccgatgtcc gtggcggccg 240
 agcaggaggt ggcgccggcc gtcgtggccg tggccgtggc cgaggcggaa gagtgggagg 300
 tgtgcgcctg ctgcgggctc agggaggagt gcacgcgggc atacgcggcc ggcgtgcgcg 360
 cgcggtacgg ccggcgctgg ctgtgcgggc tctgcggc 398

<210> 18400
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-C4

 <400> 18400

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 ggcgctcgcg ctgggaggcg tgtcgtggac tgcgcgcggc gggagcgccg gcgccggggc 120
 cgggcccgtc acgcagccgg ccatggtgtg cgccctcaac gccgtgaccg acgccgcggc 180
 ccgcgccttc gcggagcagc gcggctcggc gaccatgaag acgagcgtgg acgcgctctc 240
 ggactcgctg ttccgtcggg ag 262

<210> 18401
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B10

 <400> 18401

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tgcgtaccog gcagcctcct ggcggcgaca gcagcatttt gctgggctag cgtgcatatg 120
 aatcttgctg ccctatgccg ccgcccacaca ggtgggttggt ccgtcagtgt gtgggtcttgt 180
 tttcgtgggc aggccatgtg tcccattctcc ggtccttcag atgatctggt tcgcatctgt 240
 cttgtgtatg gttttgatat gtgttggttg tgacatgcc catggaacaa ccctatcgct 300
 atgctgtttt gttgtgtaca atggatgacg tgtgctgccg ttttgttgtg tgtacaatgg 360
 atatgtctgg ttgttgaata agaagaaatt ggtatatggt accaatagtc cg 412

<210> 18402

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B12

<400> 18402

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 agtttgggtg tcgccgtcag aacgatacgc cattgtccct gacgagaacg tccgtaaagc 120
 aggccggaggc acggcacgag gcaacggcgc cgacgcgaac gtgccggaga acgacgtgaa 180
 gaggatgcgc gtgcagtcac cgtagtaggt cttctactac cgtgcactcc accccacccc 240
 cgtaaaccct actactagta gtaagtacta cgaagaaccg gtgccccatc tagcggcgcc 300
 cgatttttgt gcgttacgtt ctgcctaaaa gtgctttccg tcgacggacg gacctcctgg 360
 tgttgagatg gtagcggtag cactgcctcg cggcgatggt gtgtgtgtgt tgtgacgtga 420
 ttcacctctt agagtagaaa ggtggctagc ccaatcgacc tgtgtgtgtt g 471

<210> 18403

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B3

<400> 18403

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 gtgtctgcag gcgcagctca agagcactcg tcaggctact ggaggagaat gatgaggaga 180

tcttcaacat gctacaacta gaaccgggga aggcaccgtg ccaaggccta tagagacgag 240
gttgggcttc tgaaaagtgc cgattgaaac aagtgcacaa acttaagaaa tgggcccgtt 300
ccgaaaaagg ttaaaagcca attggttgct ttccagacaa agggcttggt gttccaaaga 360
cggttggggg catgcttcaa ttattatgct ggaaccttcc aataaggc 408

<210> 18404

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B4

<400> 18404

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tgagcagcag acagcagcag ctgctgccat ggaggcgtgg agatctctcc tcgagagctt 120
cgtgctcgcc gtgctggccg cgcaggcctt ggtggctgtg gtcgagtcca ggaccggccc 180
cgtggagcag gcgagccaag caggtgacga cgtgaagaag ccggactgcg tgccggtgat 240
agaccgcgcg tcgggtcccg g 261

<210> 18405

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B6

<400> 18405

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ggcgatgtac ggccggcgga tggagttcga ccaactcgtat tgctacgacg acgggatggt 120
gagcgggagc agcgactgct ggcagagcgg cggcggatgg catagcagcg tggatggcga 180
cgacgacggc gccggcgaca tgacgtcttg gagctactga gctgtagagt ctgtcttcag 240
cgcaggaggt tgggagagga gaccacgctc tggagctact actggacagg gaagaaagtg 300
ggggagccgg gagcgagttc gaatttgaat tcagaaactc tgtactggca ctggcacacg 360
cggggaacgc gccacgcaag agcgagcgct 390

<210> 18406

<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B7

<400> 18406

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gtagacagca cagtcgttat ctgtgtgagg ggatcgttgt gattcaaaaa cgtgcgaaga 120
tactaccatt actcgtactt ggactaccgt tctgtgcata gtctgaaggc tgctatcaat 180
agaggactac tttagctaata gggatgcaga ctgactatga gactgatagc tgacaatgaa 240
acttccttgc tcgaaaatgg atggcattcc cattcgggtat ttgggaaaga att 293

<210> 18407
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B8

<400> 18407

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ggccggtacg agcgccgcta ctccgccgcg cccgtctgca agtggctcac cccaacgag 120
gacggcgtgt ccatggccgc cctcgcgctc atgaaccagg acaaggctct catggagagc 180
tggtactacc tcaaggacgc ggtgctggac ggcggcattc cgttcaacaa ggcgtacggg 240
atgacggcgt tcgagtacca cggcacggac gcgcgcttca accgcgtgtt caacgagggc 300
atgaagaacc actcgggtgat catcaccaag aagctgctgg acttctacac gggc 354

<210> 18408
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-B9

<400> 18408

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aaatctagga gcaaaggctc ggaaccttct agccgcacct agggtttgga ttggcgccga 120

gcatggcgta cgtcgaccac gccttctcca tctccgacga ggacgacctc gtcggcgggcg 180
ccatggggggg cccgcgcggg gcgcccgtga aggagatcgc cttegcgcgc gcgctgctcg 240
ccttcgggggc gctcgggtacc atcggtggcc tgctaattggc cgtcaaccgc gtcggaaggg 300
accgcgcgca cggaattttc ttcatgatgt tgggcattgt aatgttcac cctgggttct 360
actacacaag gatcgcttac tatgcttaca aaggttacaa gggcttctct ttttcgaaca 420
ttccaccgat ctgaaagagt gtgc 444

<210> 18409

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C1

<400> 18409

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cggcaacgaa actgaggcaa agatctttgc caaagtcaga ggatgggaga ctgagaatat 120
tgaggagatt gctttgaaga tctctcaact tcctttggct tcaggcaagc aaaagaaggt 180
tgctgggaat acctaaggtg cttattcaat ggggtggtggt taagattgga aaggggaaac 240
cttccttggg aacctaattg ccaaggggaa acttggtgac accaacgggg caagtgaagc 300
tttcggtgga aggtttcttt tacaagtggg tctaagccag ggccttgaaa aatgccttaa 360
ggccaggtgg tattccggaa acgttatcat tcaacggccg ggctggac 408

<210> 18410

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C10

<400> 18410

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cacctgtggc cgtggacgaa gtcccaggag gctggcttcg cgcactgcgc tctgagggcc 120
cgggagagct gcgagtgggt ggggttcacg gacgtcgacg agttcctcca cttccccggc 180
aaccagacga ccctgccaga catcctgcgg agctactcga acaggccgcg ggtgggcgag 240

ctgaggacag catgccacag cttcggggccc tcggggcgga ccagaatccc caagcaaggc 300
 gtgacgacgg gctacacctg ccggctcgcg gcgccggagc gccacaagtc gatcgtgagg 360
 cccgacgcgc tgaacccgtc gtcgtcaac gtggtgcacc acttccacct gaggga 416

<210> 18411
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-023-Q1-K1-C11

<400> 18411

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 tctccccct cgctcccatc gatcgaggtg gttgggatcc ggcgcttga ggaggccatc 240
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 tactgggtgc ccccgctgcg cctnccgcac gaggtcaccg cgtttgctcg ccggatcgcg 360
 gcctcaggag gcgcctnccg ggctcgccaag ttcac 395

<210> 18412
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C12

<400> 18412

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 tgtctccaac tgtggagatt cacgggcagt gctctgccga ggcaagcagc ctgtgcctct 180
 gtcggtggat cataaaccta acaggaggga tgagtatgca aggattgagg cagaggggtg 240
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 tggtgacaga tatctgaagc catggataat tccagtccca gaggtaaaa tagttccgcg 360
 ggctaaagat gacgagtgcc ttattcttgc cagcgacggc ctctgggatg taatgtcaaa 420

tgaagaggta tgtgaaatcg ctgc 445

<210> 18413
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C2

<400> 18413

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tcacccccaa cgaggacggc gtgtccatgg ccgacctgc gtcctgaac caggacaagg 180
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acaaggcgta cggatatgac gcgttcgaat accacggcac ggacgcccc ctttaccgg 300
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acacgggctt taaggcctt 379

<210> 18414
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-C3

<400> 18414

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tgttacaact ttggtagtca ccttggcggt cttattccag ccaaccactt ccaacaggtt 360
ccaaaagcag ttcttaggcc ctgcccggtt gtaaaacatg gaactttttg cgcc 415

<210> 18415
<211> 396

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B1

 <400> 18415

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 gaactaaagc tgaccttcca caaaaatcta gcaaagccga tcttgagag cgtagtagc 180
 atcgcttcct caagtacaac cagccgcaca aatattgacg agaaccttcc ttgtgagaaa 240
 ctttctaagc acccttgcaa aactacaaag gtacttccaa tttctcaagg gaaaggaatt 300
 ggccatcttg aaaaacatcc agatgacgaa atccttgact gtctacttgc caaaaactct 360
 gattaacca ttgatgtag caaggcaaat accatg 396

<210> 18416
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-H12

 <400> 18416

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 gtgtacagac ctcatctgct tgtgaagcta gtctcgatga aatgcacaat gcttgtgcga 180
 aattctcata caatcacaga tgattgctga atgcattcat ccgtaaaaac cctggattgc 240
 tgctgaagtc attctcgctg atgttgaaaa ttctctgcct gattgatttt gacaatcaac 300
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 gaatctctgt gcctcgtcca tatattcttg aggactccta caatcagctt 410

<210> 18417
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-H2

 <400> 18417

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agtacattct caccggtgac aggccaagat tcggaggaag ggcctctatc agcagaggga 180
agagccttct gcctctgttc gatgcagtcg ggcacgagggc ctgtgaccga atgccgtcat 240
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<210> 18418
<211> 253
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-H3
<400> 18418

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aatgggcatg gggatgggaa tgaatcaaca acagatgagg atggggatga accaacaacc 120
gatgggaatg gggatgggga tgaaccaaca accgatggga ggaatgaaca tggggatggg 180
gatgaaccat gggatgccga tgcgtccttc aatggggatg ggtcctggtg gaatgcccg 240
tgctggctac aat 253

<210> 18419
<211> 143
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-H4
<400> 18419

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caacagacta caatggccat gaaccatcat cctatgggac atggcatgat tgatgaacca 120
acaaccgatg tcaaataatg aac 143

<210> 18420
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H5

<400> 18420

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gcttttcaag ggaacttttt atgcaatgaa cataattgac cttgttgcaa aatcaatgtc 180
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cagtccgatt caggtgccaa ttaaggtgct tactcaaata gaactcctat tgatttgcta 300
gttgataagg taaatatcca gccactcaa tgctaggcgt aatgaggata agggcctcca 360
aaaaacttct tttcgttcta tgaactttaa ggtgtatgaa gtctcatagt aaactcttgc 420
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<210> 18421

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H6

<400> 18421

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agatatgtat gactagggct atagctcagg tcagtagagc aactcgctta cacgtgcgcc 120
aatgctttac aagggaactt tttatgcaat gaacatagtt gaccttggtg cataatcaat 180
gtctaacttc atggattcga aagaatagaa caacagtagc ctgacaatga cacacagctg 240
gttcaactcc attcaggtgc caattacggg gcttactcaa atcgaactcc tattgatttg 300
ctagttgata aggtaaaatat ccagcccact caatgctagg cgtaatgagg ataaagacct 360
acaaaaaact tctgttcgtt ctatgaactg taaggtgtat gaagtctcat agtaaaactct 420
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<210> 18422

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H7

<400> 18422

cgactgtggc caccctcctc ggccgcctgt acttcaactc cggcggcaac agcaagtgga 60
tgggcacgct gacgcagtct ggcggctcgc cgcttctggt cgtcccgtc ctctgtcgc 120
cggcgcgctc ggccgaggag cgccggccgg cggcgctcaa gatggttgcc atctacgcgg 180
gcatcggggg catgatcggc ttcgacaacc tcatgtactc gtacgcgctg cagtacctgc 240
cgggtgtccac cttctcgtc gtggccgcga cgcagctggg cttcaacgcc atcacctcgc 300
gcctcatcaa cgcgcagcgg ttcacggcgc tgatcgccaa ctccgtggtc gtgctcacct 360
tctccgtcgc gatcctcggc gtcagatcct cctgcgacga gacctacagc aacgtgccgc 420
gcggaagta ccactgggg ttcgtactcg tgctggccga ctgcacggtg ttcgc 475

<210> 18423

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-H8

<400> 18423

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ccatgctgtt gaaaaggggc aattaaccat tcttcggag agatttgaga agatttataa 120
tcattggcta acgaacataa aggattggtg tataagtaga caattgtggt ggggtcatcg 180
tataccagtt tggatatatt ttggaaagaa atgtgaagaa gactatattg ttgctagaac 240
cgaagaggag gcacttgacg aagctcatga aaaatatgga aaatcagttg aaatatatca 300
agaccctgat gttcttgata cttggttctc aagtgtctg tggcctttca gcacgcttgg 360
ttggcctgat cttccaagg aggattataa gcatttttat cttcaactg ttctggagac 420
aggccacgat atttgttct tctgggttgc acgaatggtc atgatgggaa tngagttcac 480
agg 483

<210> 18424

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A11

<400> 18424

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gctctgttga ggtcagccat ggcggaggtg gagcagcaac aggacacgcc gaagctcttc 120
aaccgctgga ctttcgatga tgtccaggtg aacgacatct cgctgaacga ctacctcgct 180
gtgaacgcga cgaagcacgc gatgtacctg ccgcacaccg tggggcgcta ctccaagaag 240
cggttccgca aggcgcagtg cccgatcggt gagcgcctta caaactccct catgatgcac 300
gggcgcaaca acggcaagaa ggtcatggct gtccgcatca tcaagcatac cctggagatc 360
attcacctgc tcaccgatgc caacccatt caggtcgtcg tcgacgcgat caataacagt 420
ggaccccgctg aggatgccac ccgt 444

<210> 18425

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A12

<400> 18425

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agggtccgatc cttcccgttc ggcggcgccg gccggccgtt ggccggcgcg gcgtctgcga 120
gggggggtgac gacggtcaca ctccccgacc tctcctacga cttcggcgcg ctggaaccgg 180
ccatctcggg ggagatcatg cgcttgacc accaaaagca ccacgccacc tacgtcgcca 240
actacaacaa ggcgctggag cagcttgaca ctgccgtctc caagggcgac gcctccgctg 300
tcgtccagct gcagggcgcc atcaagttca acggcgccgg tcatgtgaac cattcaatct 360
tctggaagaa cctcaagccc attagcgaag gtggcgggga gccgcctcat gggaaacttg 420
gctgggccat cgatgaggat tttggttcgt ttg 453

<210> 18426

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A2

<400> 18426

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ccgtgggtcgt gtttgaccaa atatcgcagc gagctccacc tcgatctgtg cagccccagt 120

tgtgacctcg tcgaatcccc gtgaggaccc gttgtttctcc ttgtgtttat tcctctctgg 180

tacatgtatt cgacgccgat taattaaatg cctaataatg tgtatatgtg tgtgattatg 240

cgtgtgattt ttgcggagga 260

<210> 18427

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A4

<400> 18427

tcgcttgagg acactgttgt gtccttttcc ttaagaaggg ggctttaaga atgatatacg 60

gggggcattt tgtccacatg gatgcctacc ccaatgtggg tatgtaaggc atgattatgc 120

ctgtccggct gaaaaaaagg ctacctagg accctatacc tgtccggact ccagttttgt 180

agatctattc ttctactgaa agtacaattt taattgacaa tt 222

<210> 18428

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A5

<400> 18428

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atgagccgct gtggatcaaa ggcggtgggc actgcaacct ggagacgtac ccggagtaca 120

tcaggcacat gcgcaagttc ataagcgcca tggagaagct ggccaaggac agcagcaagg 180

cggcccaggc gccgccgccc tcgagcatgg ccgccgaaga aagacacacc aagtgcttga 240

gattcgggaa gagatgagat gccggcgacc tggacctggg aaggaaacgc ggtgcagcag 300

caaccctagt tcgtgtatca tccgtgtgag attgagttca gacttcagag tagagagtag 360

acagagtgga gtgacagaca gacctgtggc tgctgtagta tgctgtacgt gctggagttc 420

<210> 18429
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A6

<400> 18429

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 acggtcgaat agtgtctgca aggttgctcc aatacctgga gagacaaaag tgtggcagta 180
 catcactctc actaaaaaga tatttttagat tgattgtccc ggtgttgat atgaaaacaa 240
 tgattcagaa actgatataa ttcttaaagg tgtgggttcg gtgacaaatt tggcggatgc 300
 tgcttaacac attggtgaag ttcttaagcg tgttaaaaag gagcatcttc aaagagcgta 360
 ccaaattcaa gattggtctt atgataacca ttttc 395

<210> 18430
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A8

<400> 18430

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 tggactcaca aaatgactac taaggaacta gatacaatac ggtttgccgg ttttctagtt 180
 tcagttattc atggaaagta cgatatcatt gcacaattgt gccatgcaaa acg 233

<210> 18431
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-A9

<400> 18431

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 aggaactcgc agcaggccag cagccatggc cgccccgcga acgagctccc ttctgagcac 120
 gctgctgcag ctaccactcg ctccgtttctc ggggaagagc tcgccgccgt ccgtggtgca 180
 cgtggcgcgc cgggcgccga cggcgggtgtt gggggccaag ggatacaatg tgcagatcct 240
 ggtggacgag aacgaggggg aggagtccat cttccgcagg ttccggcggg aggtgatgcg 300
 cgccggcgtg ctgcaagaga tcaagcgccg ccggaggtac cagagcaaga cggacgataa 360
 gaagcgcaag gcgcgcgagg gcggacg 387

<210> 18432
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H11

<400> 18432

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 atccctcaga catagagcag aaatggtggc tttggaagct gcacggaaga taacagagat 120
 ggatgttaca agccgtgaat tggcaccagc aattactttg ttacagttat acttgagttc 180
 atccaagcct gtgcttcgat ttgctgctgt ccggactctc aataaggttg ctaggacacg 240
 acctctggcg gtgacaaact gcaatgtgga cttggagagt ttgttgtcag accagaacag 300
 gagtatagcg accctggcaa ttactactct tcttaaaact ggcaatgaat caagtgtgga 360
 tcgtctcatt aaacaaatta cctttttcat gtctgacata gcagatgaat tcaagatagt 420
 tgttggtgaa gctatacggg ctttg 445

<210> 18433
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F5

<400> 18433

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 atcgaagaga gagggattgc ttgaaaacta ttctgcacag ggtatatggg aagttcatgg 120

tacaccgtcc tttcatccgc aaagcagtga gcaacatatt ctaccagttt gtctttgaga 180
 ctgatcggca caatgggatac gcggagctgc tggaggtctt tggcagtgtc attagtgggt 240
 ttgcattgcc tctgaaagaa gaacacaaga tctttctttg gagagtctg attccgttac 300
 acaaaccaaa atctgttgggt gtgtatcttc agcagttgac ctactgtgta acacagtttc 360
 tggaaaagga cccaaagctt gcaagctcag tgataattgg tttgttaaga tattggccga 420
 taacaaactg tcagaaggaa gtgatgtttc tcagtgaagat tgaagagatc ttggag 476

<210> 18434
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F8

<400> 18434
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 cacgtcatgc gtcataaggaa ttgtgtgatac tgatacagat tccgtcgcga ctaatgaaga 120
 agggcgtgtg aggcataaaa ttatacttgt atgttttttt catttgtttt ttcttttgc 180
 tcgctatctt tactttttac cagtatattg ccgtgagttg acagtgctag cttttggaat 240
 tcacacatat atttggcgta aaatgaattc caagagctat cagcgccatt ctttatcttg 300
 tcagcctacc ctattt 316

<210> 18435
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F9

<400> 18435
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 tgccgatcga tcacttgggtg ctcttcaagg cccaatcgga ggcggtagcc tcgatcaccg 120
 cggcggcgat aacctcctcg ctgcaagcac tgaccacgct cgttctctca ctactctaca 180
 tccactcatg accgctgctc cagatacagc acccgacga ctaaactt ggctcacac 240
 tactactcca caccctc 257

<210> 18436
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-G1

 <400> 18436

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 ctgggaccag gcggtcctga atctgaccgt gaatgtcaag aaaatgttat ctgagatgga 120
 cgacgatctc ttctcgatcat gcctggccaa gtacaaggac gaagaagaaa aacgcgcgctc 180
 gctagaagcg aagcgtagac ttacgtggga gaagctcgag tcagctgcag ctttccagcc 240
 agtgactggc catacagccg tcctagtagg ccaccggccg tcagcaaata tgatcgccac 300
 catgatctag ctcatgcatg tatgccgaac aagcgaaagt ggtgctcttc cccctttttg 360

<210> 18437
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-G10

 <400> 18437

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 gtcacgaagc tcatactagg gaagcataat cttttggcac caattacatc ttatgcccgc 120
 cctgaggtgg cagtaaaatc ccagtcatac tttttcacc c attcagtaaa agcaatggca 180
 gttacacaaa cggctaaggg gatcacttcc aagcagcttc tgttgggtac tattggtgac 240
 caggttttgg cacttgataa gcgctatctt gatccacgcc gttcagtgaa cccgacacag 300
 caagaaaaag aagagggcat tataccatta acagattctt tgccataat accccagtc 360
 tttgtgacgc actctcatca agtggaggcc ctgc 394

<210> 18438
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-G11

<400> 18438

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actgtggttg cagaaaacta ccagtcatac tatttcaccc attcagtaaa agcaatggca 180

gatacacaaa ctgctaaggg gatcaettac aagcagcttc tgctcggcac tattggtgac 240

catcttctag cactgcatgg gcgctatctt gatcgacgcc cttcagtga ccctacacaa 300

ctcgaggaac aagatggcat aataccatta acagatactt tacctataac accccaatcc 360

tttgtgacgc actatgatca agtggatgca ctacgatcca ttgcatatat tctgcatag 420

ctggagtcca 430

<210> 18439

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G2

<400> 18439

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catgggcaac gggctgcccc tccgctggat ccctgagggg gccgtcgtct gcaacgtcga 120

gcaccacgtc ggtgaccgcg gtgtcttcgc cagggcctct ggggactacg ccattgtgat 180

cagccacaac cctgacaacg gcacatcgag gattaagctg ccctctggcg ccaagaagat 240

tgtccccagc agctgccgtg ctatgattgg gcaggttgct ggtggaag 288

<210> 18440

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G3

<400> 18440

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aaactcgcgt tccgtcaaac gaatcgtaaa cgtacatcgg agaagctcca gtcattctgca 120

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atgatcgaca agatgatgta tctcatgcat gaatgcccaa 220

<210> 18441
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G4

<400> 18441

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ccgagctctg atccgtcaag gaccacttgg tcaccactga ttacatgacc tacatgttca 120
agtacatctc cgtgcacgga caatggtagc acagcgacat atccctaacg gtctccaata 180
ctcttctatt ctgcgagatg ccagtcaact actttaggat caggaactcc gaagagatcc 240
cgtggcgtga ggctgggtgct gag 263

<210> 18442
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G5

<400> 18442

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ctcctcatgc ctctccaatt acaacgacta ataataaaaa ctctcatctc tagaaacgaa 180
tcatacactt acttactaga atctctagtc atcttcatct ttccagccat ttactagcca 240
tacatctctt ctaatatgcc acccttcttc aacaaatctg atcgccaaca ttatcttact 300
cattcattta 310

<210> 18443
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G6

<400> 18443

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 gccatgttca gctacaggaa ggctggcccc gacctcgagg ccggcgggtc ctcgctgctg 180
 taccggggga tgacggagag ccccgagctg cgggtggcgt tcgtccgcaa gatctacgtc 240
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 gccgtctcca acttcttcgt ctctccaaac gccggggtcg cactctacat ctctctcctc 360
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 t 481

<210> 18444
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-G7
 <400> 18444

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 ccgacgtcat ctggggcggc ggcggcggcg gcggtaccc cggcgtcgtc tcaccgtcgt 180
 cgtcgccgtt cctgtcctcc gcggtcgacc cgtacgcgcg gtcgccgccg gtggccgcgc 240
 cgtccaagca gaagccgcgt ggggtggtgg ccggcgctcc ggggccggcg tcggtgcccc 300
 tcaacatccc ggactggtcc aagatcctgg gcgccgagta cgccgggagc ggttgggagg 360
 cgcacgacga ccgcgtgac gacgacgcgg gggccttctg tggcgccggg ggcgggcgt 420
 gggtgccgtc ccacgaggtg ctgc 444

<210> 18445
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-G8
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 tccacggaca agcagggcga cgtgtacgcg ttcggcgtgg tgggtgctgca ggtgctggcg 180
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 gacgacctcg tggaccgcg cctgcgcggg cggttctcgc gcgccaggc cgccaagctc 300
 gccggcgtcg cgctgctctg caccgacgag gcgccgcgc agcggccgc catggccgcc 360
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 ggccggagtc ggagctc 437

<210> 18446
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-G9
 <400> 18446

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 cgtcccgcgc cagcaaggct acccgggcaa ggacggctac ccgccagcgc ggtaccgcgc 180
 ggccggcgcg gggctaccct ccgcagggct acccgccgca gtacgcgcag ccgccgcctc 240
 cacagcagca gcagagcagc gggccttctt tcatggaggg atgcttggtt gccctctgct 300
 gctgctgcct cctggacgcc tgcttctgag agtgagaggg gccgaccgac ggattcgaca 360
 cggcgacaag tgaaactact agctttctat gcgagggaga gagagagaga gctggaactg 420
 gattgagcct 430

<210> 18447
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-H1
 <400> 18447

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tcgccaccaa tggccactgc cgaggtccag accccgaccg tcgtggcggc cgaggaagcg 180
cccgtggtgg agaccccgtc gccggccgtc gtgcccagagg agtctgcccc cgccgaggcc 240
gaggccgatg ccgacgctgc tgctcctgct gatcccagagg agcttccccg ggccgatcag 300
catgcagccg ccgaagcgga tgccccggtt cctgctggtg ccgatgagcc cgtcgcgggc 360

<210> 18448
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F4

<400> 18448

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atagcaattg tatgatctga tacgagttcc gtcacgacga aggaagaagg gcgtgtgagg 120
cagaaaatta tacttgtatg tttttttcat ttgttttttc ttttgcttcg ttttcttttc 180
tttttcccag tagattgccg tgagtagaca gtgctggctt ttggaattca gacgtgtatg 240
tggcgtaaaa tgaattccaa gagctagcag tgccattctt tatcttctca gcctacccta 300
tttgttgtct agtccctttt gcctctcttt ggcgttctag acaccggga agtgtaatgg 360
acagacgaac accaccagtg tgcaattcac atgactagag agaactt 407

<210> 18449
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E11

<400> 18449

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cgctcggagt cgggtgcctt ggtcgccga tcaacgatgg tctcctcgtt acaagcgtg 120
gccacgctcg taccgggcct gtcctacatt cacgcaggac cgggtgctccg actacagtcc 180
ccggccgctg aggtcttgg cccacgcac cttcttcaca ccc 223

<210> 18450

<211> 412
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-022-Q1-K1-E12

 <400> 18450

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 cgcgggcggc tcggcggtcg caccggcgcc cgcgcgcgcg gcaggcgctc gcggcgctcct 180
 tgtcgtcgcg cgccatcgtg ccgttcctcg agaaggccgc cgggtccaag aggaggagga 240
 gacgcgaaca ggatgagccg agcttcgagg cagaggagga cggggtgtgg aggaaggaga 300
 taatgatggg ggagcgctgc cagccgctgg aattctccgg ggccatctac tacgacgccg 360
 agggccgctg tctcgagcag ccgncgaccc cgcgctcgcc gcttcgcagc cc 412

<210> 18451
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-E2

 <400> 18451

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 gctgggaccg ggggtctcgcc gctgcagcga ctccggctgc tccgcggacc gcagctcgcg 120
 acgtactttc gcgccacggc ctccggcgcc gagccggaca ctatccgtgc gcatgaacgg 180
 gctgcacatg ccctacccgt tcgtgatcag gtcacgcagc acgggcacca cctacaccgt 240
 gacgaagtag cgcctctacg agggctacta ccccgatgac gacaagacag tgtcattgca 300
 tgctga 306

<210> 18452
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-022-Q1-K1-E3

<400> 18452

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atgcgcttcc gacgtctgca cttcttcatg gttggatttg ctccactgac ctgcgggggc 120

tcccagcagt accgcgctct caccgtgcca gagctgacct agcagatgtg ggactccaag 180

aacatgatgt gtgctgctga ccctcgctcat ggccggtacc tcacggcatc tgctatgttc 240

cgtgggaaga tgagcaccaa ggaagtggat gaacagatgc tgaacgtgca gaacaagaac 300

tcttctact tcgtagagtg gatccccaac aacgtgaagt cgagtgtgtg tgacattcca 360

ccaattggcc tgaagatgtc cttcacattc gttggcaact caacctncat ccaagagatg 420

ttccgcgcgc tcagcgagca gttcacggcc atgttc 456

<210> 18453

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E4

<400> 18453

gcgcgcgtcac cgcgcacctc tggcggttga tgtgcgtctc gcgcgggctc gccccgggct 60

cgggcactcg ggtccgcgtg ccggccaacg tccgccaccg cctgcgcccg ccgctcccgc 120

ggagctactt cggcaacgcc atcgtgcgcg acctcgtgac caccggggtg gaggacgtcc 180

tggaacgccc gctcgggttc gtggcgcatg cgatcaagga cgcggtggac cgcgtcaatg 240

acgcctacgt gcgctccgtg gtcgactacc tggaggtgga gtcggagaaa ggcagccagg 300

cggcgcgcgcg gcagctcatg ccggagtccg acctgggggt ggtcagctgg ctcgggatgc 360

ccatgt 366

<210> 18454

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E5

<400> 18454

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gaagctattc atggctctac gttcttggtg tgtgtctgat agctcatgct acctttcggt 120
 tgttcacatt ttttctatca ttttttggtg tgttcaagtg ggtaacatct gttctacagt 180
 atctagacat aggttacact ttaaaatccg cttgttcttc aatcaactga ctgaacagtc 240
 caaccttcta gagttaatgg gcggcaaagt tgcaattctc tactatagtc aagttgacga 300
 ccgctagtga agataaatgg tgtggagtac cgtaattcac ccgattcctt tttctctccc 360
 acaacagggt gcccatagtt gggaggctct tgacggctgg ctagatgcca tacgccttgt 420
 ctacactatt tttgcgagag ggaagagcga tgtgcttgcc ggtattatta ctggt 475

<210> 18455

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-E6

<400> 18455

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 ttaaaggcat tgtgaaagag gacagcacta ctaactctgc taaacaacac atggccttat 120
 tatgtctggg agaaattggg aggaggaagg acctcagcaa tcatgttcaa attgagaaca 180
 tcgtcattga atcgtttcaa tcaccttttg aggagattaa gtccgcagca tcctatgcac 240
 ttggaaacat tgctgttggc aacctctcca agtatttacc atttattttg gatcagattg 300
 acaatcaaca gaagaagcaa tatctgatgc tccattcact taaagaggta atcgtgcgac 360
 aatctgttga tcatactggc cagagtgagc tacaggattc anacattgag aagatattgg 420
 cattgctctt caatcactgt gaaagtgacg aggagggagt tcggaatg 468

<210> 18456

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-E7

<400> 18456

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 tcaagtcaaa ggagatagag aggctactga tggagctcaa aagcaagagt gatgagttcc 120

ataaccaaaaa aagatgtgat gaggc aaaagc tgaatgctct gtcagaagaa atcgacctac 180
 tcaattccaa gatcgacaag ctatccagt agagaaatga gctattcgaa aagaatgagc 240
 agaaagaaaa ggaattagct ggaattagcg aaaaggacat gcaattgcaa gacaaaactg 300
 ctgagattac ttcactaaat aaagagcttg tttcctcaa ggaccaagtg aagatgcatt 360
 tggacgaact gcacagttta aaacgtttga agaacgagag ggaggaaaca attggaaaac 420
 tgcaaataga tattgggtca ctgaaactcc agtgtgacaa cttgaaaact tcgctgtcca 480
 agaaagagtc tg 492

<210> 18457
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-022-Q1-K1-E8
 <400> 18457

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 aggagccttc cagagctgcc ccattgccag aagagcaaag atcaacacga ggtccagggg 120
 ctgcagcagt agcgtggcga aggggtcctc accaccagcc ttccagttcc agtgcagggc 180
 gtcgactttc gcggcggaca ccagcctncc gctcgagctg gacgagaact ccgagggcat 240
 catct 245

<210> 18458
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-E9
 <400> 18458

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 tcccagcaac catggcattg gcctacaata catcgacctg gccatgaac gcgaatgagg 180
 agtgccaacg ctggttcatt gatatgaaga cgaacaaagt gcaccgcttc acgctgtaca 240

acatcgacga gcggacgcac gccgtgctgg tgtacaaggt acagcgtcca ccagcaagga 300
cacatcaagc tcgtggtcgc actgcccgcac gacgactgcc agtacgccgt cttcgacttc 360
gacttagtga ctgttaacta ctgtcagaat agcatgatct 400

<210> 18459

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F1

<400> 18459

cggaactagc cactcgtccg atcacagcta tctagcacta cataactaact atctcttctt 60
caccctactt aatccaac 78

<210> 18460

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F10

<400> 18460

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gcacccagct cgtcgtcagg ctcgagcaga tgcagcagcg cgtcgacaag ctcaggaagc 120
gcgacgactg atggatccgc atccatccgg tgggctcgtt cttcctcttc ctgccttggtg 180
ttcctgcttt atgttggtgt gctcatgttt tagatctcgg atcgtaattt gagacctgct 240
ggtagcatct gcttcctttg ccttgccgtc ttcagataaa aaagaacagc gctcttgga 300
acgatgataa tgtttaggat gtttggaaga atggatatctg tcgtaattga tgtcttcac 360
catgagttgg ttggtgtcac tcaatgtaca ctgagatatt ggtaaatagc tactagtgtc 420
gttt 424

<210> 18461

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F11

<400> 18461

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cgggtggaaga gagaatgagc ttgattgaaa gcagccctac aaaagtatgt gagcttgatt 120
ctgccaatca ggtggtggtg aaaaacgcgg aggcatacac ctacgacgac gaggtgatca 180
agcacgccga ggccatcggg aagccaggct tgggtggagat caccgccaag gaggacagct 240
tcgtcttcac cgtagaaaca accggcgcca tcacagccta cgagctgata atgaacgcga 300
tcacggtcct gaggcagaag ctggatgccg tccgccttca tgacgacgac ggcgaccttg 360
gcgagctcgg cgccacactt ggtgggcctt atgagctttg agcaagaagg aatcgccctg 420
tggcc 425

<210> 18462

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F2

<400> 18462

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atcggcgctt gagctccgcc gctgcagatg gagttctggg gtctcgaggt caagcctggt 120
tccactgtta agtgtgagcc tggatatggc tttgtgtgc acctttccca ggctgctctt 180
ggggaatcga agaagagtga taatgccttg atgtatgtca aaattgatga tcagaaactt 240
gccattggaa ccctctctgt tgacaagaac ccacacatac aatttgatct gattttcgat 300
aaagagtttg agctgtcgca cacatcaaaa actaccagcg gtttctttac tggc 354

<210> 18463

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F3

<400> 18463

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taatctactt cactcgcata atcgactac ataaatatgg cctgaaaact attcttcaca 120

atgtctatcc taaattcatt gttcacgctc ctcttatact ctacattaca actaccattt 180
totaacactt ctttttttaa actgatcaac actaattaat ccttaattcta tctaaaaact 240
taagatcata cactaatcat tttaactttc ttttctaaca agaacacact ctctctcttt 300
gaacagatct tataccatga cataaaccat tctctcatca taaacactat catcatttta 360
tctactgtct aacacat 377

<210> 18464
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-E10
<400> 18464

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tccttccatg ctctggtcc cgcagcacca cctccaaatc ttctcgggcc tgccctctgcc 120
tctgcctcct gaggtgctga acgacagctc tgctacttct gatctgcatg atggccggga 180
aagcagcatg ccggagtcac ggagccagct gcttcttggg ggattagtcg gagaccacga 240
gagatacaac gctgccacag ctttactgtc aaaaggatta gaggagcgcac ctgcagctta 300
caattgctac gacctggac atgggtggtg tgaggagatc cagacaccgg ggaccaacat 360
taggtctcat caggtgagcc agacgctctt agcgtcgtcc tctcctaggt cctgcacac 420
cacaagcctc ggcagcaaca tgctgg 446

<210> 18465
<211> 483
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-C6
<400> 18465

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acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc 180
agagggtccc cggttcggc ttcgtcacct tctccacgga agaggcgatg cggaacgcca 240

tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac gagggccagt 300
 cccgcggcgg ccgtggaggg ggcggcggcg gcggttacgg tggcggccgt ggagggcggcg 360
 gctacggcgg tggctggcgc cgtgatggcg gcggcggcta cggcggcggc ggcggctacg 420
 gtggtggcgg ctgcggctac ggtggtggtg gcggcagcta cggcggcggc aaccgtggcg 480
 gcg 483

<210> 18466
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C7

<400> 18466

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 ggcgtgctgg tgcctgctc cttcgccggc gccagcttgg accaggagct ggacatcacg 120
 tggggcgacg ggcggggcaa ggtccttgac aacgggcggc tgcctgacgt gtcgctggac 180
 cgcacgtccg gtcgggggtt ccagtcgccg cagcagacc tgttcggcaa gatcgacatg 240
 cagctgcggc tggcggcggg caactccgcc ggcaccgtca ccgcctacta cctgtcgtcg 300
 cagggcggcg cgcacgacga gatcgacttc gagttcctgg gcaacgtgtc cggcgagccc 360
 tacacgtgac acaccaacgt gttcacgcgg tggcaggggc agcgggagca gcagttccgc 420
 ctctggttcg accccaccgt cgacttcac acctac 456

<210> 18467
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C8

<400> 18467

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 tcatcccttg tttcctaaca ggctataggg tcaacacttc taaatgcaat caccttcaga 120
 ctaatccaat caatcttagc cactgtgcat accttactca tatcgatagt ccagctcgct 180
 tcccgttaa agatcaatgg aaaacaatag cctcaacaga tctgc 225

<210> 18468
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-D10

 <400> 18468

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 ggtttttcttc cctcggatgg cgagacaaga acaagggcaa gcagaacggc tctgatgagt 120
 caacaaacgg taagctcaat aatagcaccg atcaaggggt tgaaacaccc aaaaaggacg 180
 actcgccaaa agaggggtgaa cagattgtcc gaacaccgga aagagacaat gaactgagac 240
 tagggacacc caagatggat agtgaggtac caagtgtgga aatggcggca aacagtacga 300
 atgggctgga ggaccagttg gaggagataa aattggattg atatcctttg gctgggtctct 360
 aagtcgcaac ataaggtgcc attaaattat gtattggtgt atccattttc cacctctatt 420
 ctttt 425

<210> 18469
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-D11

 <400> 18469

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 cgagaatcat cgatgatttt accgcttacg cagacgtgtg cttccggagc ttctgcgaca 120
 gggatgaagca ctggatcacg gcgaacgagc ccaacatcga gcccatcggc ggctacgacc 180
 aacgctacct accgccgctc cgatgctgct acccgtttgg actgggcgctc acctgcaccc 240
 acggcaactt cagcagggat ccgtacgccg tcgtccacca cctactgctc gcgcatgcgt 300
 cggctgtgtt cctctacaga cgcaagtacc agggcgagca aggaggacgg attggactga 360
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<210> 18470
 <211> 427
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-D12

<400> 18470

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agtctggtgc ctcaatgagg tgccctgggt gccagggctc aggcataaaa gtcactattc 120
gtcagctggg cccttccatg atacagcaga tgcagcagcc ttgcaatgag tgcaagggga 180
ctggagagag catcaatgag aaggaccgct gccaggggtg caaggggtgag aaggctcattc 240
aagagaagaa ggttcttgaa gttcatgttg agaaggggat gcaacacaac cagaagatca 300
ccttccctgg tgaagctgat gaagcgcttg atactgtcac tggagacatt gtattcgtcc 360
tgcagcagaa ggatcactcc aaattcanag gaaaggggtga agatctcttc tatgagcaca 420
ccttgctc 427

<210> 18471

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D2

<400> 18471

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acaggccaca agaggaacac tgcgaaatgc atgccccttg ggaagaaacc aaaaaatctc 120
agccatggtg gcaagtagct gatgtcgatg gtttggttcc ccttgctcgt gaaagagcaa 180
tggaaaacat tgtcaacaat gatctgcca gacccactca gacagtcagg gttcatggac 240
ctcaagtga gggccctgaa aacaaggatg attatgggat gtctgttggt tctggggggc 300
aagagccaga tctgtacat gacactatgg agtgcagcta cagtgtt 347

<210> 18472

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D3

<400> 18472

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cgaggctcgc ggagctcatc ccgaccacgc cggcgcgccg cggcggcgcg gcgtggcccc 120
ccggcaagtg caagcggcgg aaggcgaacg acttcgaggc cgcgttccgg gagttcgacg 180
aggactccga ggaggaggag gaggacgacg aggggggtggt ggagagcaag cccgccttcg 240
tcgtcgtcgc ctcgctccgc gcgacgcagc ccagggcgcg ccatgagcag cggagccggc 300
gccgggcgcc cgaccagcat cagtacatgg gcgtccggcg ccgtccgtgg ggcaagtggg 360
ccgccgagat ccgcgacccc gtcaagggcg ttcgcgtctg gctcagcacc tttcccttcg 420
gcgatgccgt cgcgcgcgcc tacgaccacg 450

<210> 18473
<211> 473
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-D4
<400> 18473

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atgtatggta caaggggtgg actaacagaa caagaactaa taaaacaaga agcagaatac 120
atttaccgtt accggttaca tggtggtggg gcaactcaag tttggctaag ttctggaaga 180
tttgttgtaa tagatctttc agcgggccct tgtacatatg ggaaaataga aactgaagaa 240
ggcagtgtca gctataggtc aatgccacgg ctgtcacaaa taatcttccc aagaggactt 300
gctgccccaa gtgctagttc aacgcaagat attttcattg ggcagctcgg aggtgcaatt 360
gcaactacca ttgagcatgt gatagctcct gatataagat ttgaaactgt tgacatggca 420
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<210> 18474
<211> 477
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-022-Q1-K1-D5
<400> 18474

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gaagccggac tatgcctgtg gccagccggt gcctgtcagc ccaaccgcgt tcccagaccc 120
gagcgggctt gactcgacga cgcttgcgtg ggcaacatgg caggtcgtgt gcaacattac 180
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agtgateccc tgcagcacct gcgcttgtgg gtgccctgca aacaggcgag ggccaacgtg 300
cagcaccacc gcacaatcca tgctgctgcc accggaggcg ctgcttgtgc cattcgacaa 360
ccggtcacag aaggcggttg cgtgggctga gctgaagcat tacaatgtgc cccggccgat 420
gccttgcggt gacttctgtg gcgtgagcat caattggcat gtctcaacgg actacaa 477

<210> 18475

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D6

<400> 18475

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agggcggtact atccgacaca catgcccata cattaaaaaa ccaacagata tgatccatgg 120
ctgcaagtat ctcatgtcga cgattagtct tacattatcg ctgaaaaagc actggataac 180
attgacaaca atgatctgcc aaaacccact catacagtac acgttc 226

<210> 18476

<211> 475

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-D7

<400> 18476

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ttggtaaata ttgctgcact taaggctgcc atggatggcg caaaatctgt cacaatgaat 120
gatcttgagt atgcaaagga ccgaatcatg atgggtagtg agcgaaagtc ggcagttatc 180
tctgatgaat gcaggaagct gacagcatac catgagggtg ggcattgccct tgttgccatc 240
cacacagaag gagctcacc tgtccacaag gctaccatcg taccagggg ggtggcccta 300

ggaatggtgg cccaactccc tgacaaagac cagactagtg tgtcaaggaa acagatgcta 360
 gcgaaactgg atgtctgcat gggaggccgc gtggcagaag agcttatatt tggggataact 420
 gaggtgacct ncggtgcgtc gtcagacttc cagcatgcaa ctgcaatggc aagag 475

<210> 18477

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D8

<400> 18477

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 gcattccttg accattaatt ctctcctggg catatcagtg gtgtttatct caatgcacca 180
 gttcttctct gcgcttgcaa aagtcaaaga tgacaaacca gctgactcaa tagagttgga 240
 agatacacia aatgaccgcc catctgaatc ttcttttgta aatatgactg ctggtgccgc 300
 tgatgatgca agccatcgga ttggaactga tgagaggcag ccgctattgc ctatatgaac 360
 ttgtttgttg aggtaggaca gaagagaggg gatagaagaa gaggctcctt gttgccgtgt 420
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<210> 18478

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-D9

<400> 18478

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 aggctaaaag aatggatggt gtatggggag agactgctgg tgttgaaggt caattgttgc 180
 tgttgtgcc tctccttttc ctctgcagg gattcgaggg ttatgttggg tttttacttc 240
 tgcgcacagc tcatactggc gttgtccctg agtggcaggt tgtggtatgc gggatcctgc 300
 tgatcgcgat tgcaatcggg aactttgcaa acacagtgga caccctggtt accaagttcc 360

ggttcaaggc gaagatgaag aaatccaatg gcaaacggga ccttgacaca tgcccctcgc 420
 caacaggttc a 431

<210> 18479
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-022-Q1-K1-E1
 <400> 18479

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 aattatccat attattcata tcatataatc atgatttcaa gtgagcaaca tctgttatac 180
 atcatctata catacattac actttaaaat taccatgata ttgaataaac tcaacttaaca 240
 atccaacctt atagacttaa tgtgcccata atgttcaaat ctctactata gtcaagttca 300
 caaccattat tgaacatata cgttacaaag taccgtcttt caccctattg cttcttatgc 360
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<210> 18480
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-022-Q1-K1-C5
 <400> 18480

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 tcttgaaggg cactgagaaga actgtcttgt cgcattccgt atggagcctc gtatattcaa 180
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 ggaagaaaaa ctaggttgtg tgtgtgtgtg tttttctttc tttcctcctg aacttgcaaa 300
 gggcgctatg ccacctgtgt tcaaatgata cacaacatcc aaagagaaag catgaggagg 360
 aaacatgatg cactcctgcc tggcaacaga tcttncacat gtctgcactc tctacatcat 420

tggacacact ntattnctgg cagatagtag ttaagtttaa tttatgtttt cttt 474

<210> 18481

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B10

<400> 18481

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gtggccccag ttggaaaccc aggcctctga tccacttaag tttagccaag accttctctc 120
agatggatct taggggtctt ttgctggaaa aaacgaaaac tgagcttaaa aacaagctaa 180
cagtaataaa aagtaaaaca tccaagttg ctagtgaaaa agcgagcaag aaaattgcgg 240
tcaaggaaaa tgggtggggat aatgaagctc ttggaccaga agatcctaca gctattaaag 300
attctcatga ttcagaacag actggttcta atactagcac agatgctgaa aatgaagatg 360
atgaccactt atcttataat gttcctgac cagatttcca tgattttgac aagaatcgca 420
ct 422

<210> 18482

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B11

<400> 18482

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gctgtacttg aaaagagcca aaagatggca cagcaaaatg gatcctctgc tgctgaaagc 120
acaaactctg gcagtactca agatgcattg aataagcgat tggagcagct tgtcaattcc 180
catcctgggt ttttaatttat gaagggaacc ccagaacaac caaggtgtgg tttcagccgt 240
aaagtgggtga acattttgaa gcaagaaggg gtcaaatttg ggagctttga catccttaca 300
gataatgatg ttcgtgaagg tatgaaa 327

<210> 18483

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B12

<400> 18483

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tggcactgag cctcgcgtcc tcttcgcgct ctgctgtggg atgttctctt ctctcgcggt 120
aagtgaccga gtaaaaacaa tgggaccctg ttacagaaac taattatagg ggcgggtatg 180
ttcttgggat gctttcatgt atagttgctg gagttagaaa ttttctcagc agatagcact 240
gcatggcttg aagtaactaa ctgagcatgg atctaaagac cgtttctttt cagaaaattt 300
gcacacaata aattgtgttt ccagtgtgct ctgtcacaat acttagctct tcacttcttc 360
cctactcata ttttgaaaaa aaaatgacaa catcctatca cccaggtaa ggatcttctc 420
tgctgaaaac gttcgagctg agct 444

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<210> 18484

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-B2

<400> 18484

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gcggtcctgg cagcggcgct gctgctgctg gcggcgggtg ccgggacggc gtcggcgggc 180
gtgagctgcg gcgaggtgac gtcgtcggtg ggcgcgtgcc tcgggtacgc gatgggcagc 240
gcggcgctgc cctccgcggc gtgctgcagc ggggtgcgct cgctcaacag ccgcgcgctc 300
tcggcgggcg accggcaggc cacctgcaac tgcctcaaga gcatgacggg ccggctcggc 360
ggcggcgtca gcatggccaa cgccgncaac atccccggca agtgcggcgt ctccgtcggc 420
gtgcccata gcccaccgt cgactgcacc aagatcaact gat 463

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<210> 18485

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-B3

<400> 18485

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atagccatgt gtgtatgtgg actattccct gaaggttatc cactaaattg ttcatttcca 120
gatttagata ccatgcctaa atgtagtgcc ctgataccat gaattagctg agatccaaca 180
cctattttat tgatcacaat tgtactttta tgtatacaac ggcacatgat gctcttgatc 240
tgctccataa aaagctaaaa gtgcatgac tangaataga aggagcgggt gcctttgtta 300
accatagcat tttgcaaact tttacatga atgtatgatt gccgaacttg ttaactgaat 360
ttatcagttg aactactttg cttatagcat acacacttaa cacaatatca gcctgtgaaa 420
ttctgggaag gtggattttg ctttttttcc cttgtaattc gcaatttcac agatgatctt 480
gaat 484

<210> 18486
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B4

<400> 18486

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tagctgttgt ctgggtagcc agcctccttg caggcacggg gttcagtgat gatatcgtac 120
ccatccatat acccttggtg gatcggttcc aagcctggca ggccgaatac aaccgcacat 180
atgcgacccc agaggaattc cagcaacgct tcatggtcta tagcgagaat gtcaagttca 240
tcgagaccat gaaccagcct gggagctcat atgagctcgg tgagaaccaa ttcgctgacc 300
tcaccgaaga agagttcaag gacacgtatc 330

<210> 18487
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B5

<400> 18487

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cctcgcccc gcccggtagt agcctcgccg ccgttgccga gatgggggttc gtgtccttcg 120
tcgggagggt gctcttcgtc gccgctttcc tcctctccgc ctaccaggag tttaaatgaat 180
tcggtgctga tgggtggacca gcagctaagg cccttcggcc caaattcaac gtgtttgtca 240
aaaatgtatc tgctcatctg ggagtagctg tgccacacat tgagttgaag catgtgattg 300
ctgtacaat tgggtcttaag ggtcttgga gctcctttt tattttgagc agctctctcg 360
gtgcttatct cctgctgctg taccttgctt tgatcactcc tatcatccat gacttctaca 420
actacgatat ggagaaggca gaatttgcag gcctctttgc gaagttcacc caggatttgg 480

<210> 18488

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B6

<400> 18488

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tcacaaggct atctcgaaac cggcagcaag ccatagattt gtatcttctg acccgatga 180
tgccgatgat gatcctgggt cttatttcat tagtgctgtc tgctggaaga gtgatagccc 240
tacgatgtta actgctaaca gtcaggggac cataaaagt cttgtacttg ctccttgatg 300
ttatggaggg cgttcaagag gttcacagta ctgtccagtt gtttcctttc gtgtcattat 360
attcccccaa aattgggaac ggtggcataa ttgatctccg gttagggaat gaagttttgc 420
agatggtcag ctgacgtagg gttttgaggt atcagaatgt gcatagtcat gt 472

<210> 18489

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B7

<400> 18489

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ctagctcggg cggcatcagg cagtcatcat gtcagaggag aagcaccacc actttcttcaa 120
ccaccacaag atggacgagg agcagcccg cggcgagtac gggacttccg agaccgatgt 180
ggtcaccgac accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacao 240
gcacaagcag cacctctcg aggccggcg catcgtcgac ggcgccttcg cactttacga 300
gaagcacgaa gcgaataaag acccctagca cgctcacagg cacaagatca ccgaggaagt 360
cgc 363

<210> 18490

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B9

<400> 18490

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gtgcatctcg atccacatcg gccaggccgg tatccaggtc ggaaacgcgt gctgggagct 180
gtactgcctc gagcatggca ttcaggctga tggtcagatg cccggtgaca agaccattgg 240
gggaggtgat gatgctttca acaccttctt cagtgaact ggcgctggga agcacgtccc 300
ccgtgctgtt tttgttgacc ttgagccac tgtcatcgat gaggtgagga ctggcaccta 360
tcgccagctc ttccatcctg agcagctaata cagtggcaag gaggatgcag ccaacaactt 420
cgctcgtggt cactacacca ttggc 445

<210> 18491

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C1

<400> 18491

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gctggctagt ggtgaaaata caatggcgca gcggcaggga agaggcagtg gtgctgtggc 120

ccttgccggcg gcggcgggcg tgctcctctg cgtgctcctt catgcccacg tcgaggagtc 180
ggccgtgttc accgtcggcg accgtggcgg ctggagcttc agcaccggca cctggactaa 240
tggcaagcgc ttcaaagctg gggacgtcct agtgttcaag tacgactcga ctgcgcacaa 300
cgtggtggcg gtgaacgc 318

<210> 18492

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C11

<400> 18492

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ctgattctct tatgcgtcag atgttgtgca acttgatgtt gacttggttg atttctgatg 120
taattaatgc agtataatag ggggctagaa ctgatgaaaa actatggtta caaaaattta 180
tacaaatcta tcgaatctga taagcgtgtg cattgccctt gacagggttg acaactcatg 240
tagcatgtta ttttggttga ttgtctctct ttttttttaa aaaaaactat ctgtacagtg 300
catattgaca caaccatttt ctcaggctctt tgatctttca gttgtgaagc cttcagattt 360
tgttcaccat ggtttgagtt gtttgagagag gttagctgac caaggcgata accgtgcgaa 420
ggctgttcgt gagaaaatg 439

<210> 18493

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-022-Q1-K1-C12

<400> 18493

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gtggtgcacg gggtcgaaag cagacctata ccacgttatg atctacatgt tccttagccc 180
aacagatgat cttagtgaga accagttggt tagtggccag aagacagtgc agcttggttct 240
acttctgctt gctttagtgt ctgtaccttg gatgttgatt ccaaaacctc ttcttttgaa 300

gaaacaacat cagcaaaggc atcaaggtca ccagtagcgt atgcttcang gcattgatga 360
atcagtggga gcagaattgg gggaacatca tgaggacgca catgacca 408

<210> 18494
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C3

<400> 18494

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aggcgaagcc gaagaagcac acggcgaagg agatcgccgc gaagatcgac gcggcgacga 120
cgaaccgggg cggcggcaag gccgggctgg cggaccggct ggggcaggac aagggcgggc 180
atgcgaagct ggcgtgcccc ctctgccgca ccccgccgcc cgacatcaag tccatgcaga 240
tccaccacga ggcgcgccac cccaagctcc ccttcgagcc ggagaagctc ctcaacctgc 300
ac 302

<210> 18495
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-C4

<400> 18495

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ggcgcctgtc atcccgtacg cgacggggag ggccagcgcg ctccccgcgt cgtgctgcag 180
cggcgtcaag agcctcaaca gcgcggcgcg gaccagcgcg gaccgccagg cggcgtgccg 240
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cccggcaagt gcggcgtctn cgtcggattc cccatcagca tgtccaccga ctgcaacaag 360
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cgctgcacga gtgatgaaac cagggaagaa aataaa 456

<210> 18496
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-B1

<400> 18496

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cgctcggggcg ctggtgatcc ggttgatgca gcagcggggc ctcgccca actgccctc  180
ccgaggcttc tcccgctccc gacgcgcagt cgagggcgcc tgaaacgcac ccgtcccacg  240
cacgcagggc aaccgaaaac ccctcgatcc ggctctctc gcgctgtagg ctgtataacg  300
ccgtagacga caacggagga gaacggggac gaataaaacc caacacaact accggcgctcc  360
gtataggaac gaaggactcg agatggacac cgtcagcggt cccgtggtgg cccgtgcgaa  420
tggtatccgg gaggtggagc gcaaggtgca gaaagactac tgggaggagc ac          472
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<210> 18497
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H5

<400> 18497

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catgttcatt ctctctggaa ctccccatta tgcattcaca aggggataat ttggtgatac  180
atggcaaacc ggtgtgagtc tatagtataa ctggctgtaa tggaactatc acatcctagg  240
aaataggcca attaaatttg ggctggatt taaaatcggg attcttgttc aatatgaaag  300
atagcactat attccaaaat aaaaag          326
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<210> 18498
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H6

<400> 18498

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atcatccttc cggccctcgg cgtcttcctc cgattcggct gctgcagaat agagttctgc 180
atctgcctgc tgctcacaat ccttggctac gttcccgga tcatctacgc gatctatagg 240
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ctggttctgc caagcggggc tgcacagatg agtcgaaatc agtatttttt ttctcatgtg 360
gattgtctga catggcatat acggcaatgg gtaaccaagt gttgtgggct atatctctgt 420
tac 423

<210> 18499

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H7

<400> 18499

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tggtctctcaa cctcctgttc ttcacagtgg ccaacgcctg cggcagctgc cggaccccaa 180
cgtcgccggg cgtgccaccg ccgccgacgt ctgcctctgc acggtcatca agggcaacgt 240
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gtgcgtgccc aagggttaca tgtgtgcgta agctccgcgc ggttacacgc tcgtagccgt 360
tcgctgctgc aattaagcat gcacctgcat ggcacacatg tattgtgcgc ctgctgatct 420
ctcctgtctc atttgtgcac cttaagttct acagtcctag aaccatat 468

<210> 18500

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H8

<400> 18500

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gatccccgacc agcttttgagg gcgcggaggc ggacggacgc tgctgcacct tcctggagat 120

cctcttcgcc atcactctcc cgccccctcg cgtcttttcta cgattcggct gctgcagaat 180

agagttctgc atctgcctgc tgctcacaat ccttggctac gtccccggaa tcatctacgc 240

gatctatgtc cttgctgctc tcgactctga ccagcagag aggggaatact acacccttgc 300

ttagagcattc tggctgtgcc aggcgggcct gcacagatga gtccaaatca gtatatatttc 360

tctcatgggg attgcctgac atggcataag cggcaatggg taacca 406

<210> 18501

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-H9

<400> 18501

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acggctgca cttcgacctg cacgtggcct gcgcgctggc ggggccgact ctgaggcacc 180

ccctcttcgg cgagggcctc gagttccagc tcctcccgga ggcgccgtcg cccgtcgaca 240

agacgttctg caacgcctgc ggctgcggg cgcgccgct cgtctaccac tgtttcgaca 300

gggacctgga cttcacccg acctgcgccg cgctgaagcc ggagagcgcc ttcccgggcg 360

gtcacctggc ccagctcggc tgggaggccg ccgagcaccg ctgcgtcgcc tgcgacgccg 420

tcgtcgtcgn cggcaagagg ttctgggcgt a 451

<210> 18502

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A1

<400> 18502

tgcaatactt ccatgagaat gctacttttg ctactgttgt tggccgaagg cgactcctgt 60

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tgacactgct acaggaaaat ttaccaagta cactgctgca attggtgtaa ccaagccaga 180
ctaccatgct gcattcattc tgcgggacaa atgttacacc attaaagtgt caggtgttta 240
tcaccttgat gagaaacaga atgcctcagc tgtagctgag ctaaccggga ggctctcaac 300
aaatcagaac aactcacag tccttggact gtacacagat gatccccata cagcttttat 360
aagctagact caatatcact ggaacgcttg ccgcgcttct ttagcatgag 410

<210> 18503
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A10

<400> 18503
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tccattcatc ttactagccc cagttaaaca tcgagcgggtg cttgagccca taatgttgca 120
atcgaaaacc attcacttat tcattcccc 149

<210> 18504
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A11

<400> 18504
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ggtggacgcg tgggtggcctc tgctgggagc ggcgatcccg gcgctggtgg cgggtcagtt 180
tgtccgcata aagcgccggc gcgacgagga gcagcgctc aaggcggcgc gcgggcggga 240
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<210> 18505
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A12

<400> 18505

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gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240
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gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360
gtcgctgccg cggcgggccgt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
aag 423

<210> 18506

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A2

<400> 18506

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ccggggcgcc gtcggggagg acagcgccgt cacgatgttg gagttgcgtc tggcgcaggg 120
gagcctcttc aagaaggtct tggaggcgat ccgcgagctg gtcacggacg ccaacttcga 180
ctgctccggg accgggttct cgctgcaggc catggactcg agccacgtcg cgctcgctcg 240
gctgctcctt cgcgccgagg gcttcgagca ctaccgtgc gaccgcaacc tctccatggg 300
catgaacctc aacaacat 318

<210> 18507

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A3

<400> 18507

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actaaggcta ctctgtaag ggatctttgt gtgacagtat gttctcaagg agttgcattt 120
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 ggtgtaacca agtcagtcta ccatgcttca ttcattctag acgacaatgg tgacaccatt 240
 aaagtttcat gtgtttatca ccttgatgat aaacataatg cctcagctgt atctgatcta 300
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<210> 18508

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A4

<400> 18508

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 tagggggatt agcatctagg attttctaga gtagctgctc gatggaaagg taatccacga 120
 gcaaacaaag tccgactttc aaaaatgtcg gccgcctga atatcttgag ctgaggagtg 180
 ctggactcat tattcagttc cctcaaaatt aaagaagaaa gacatcccct acctatccac 240
 agcggttctc tctaaattgt cctgctata tcattttttt gtgtcacatc aacattccat 300
 ctgctacttt ttcaatctcc gcaacagttc cccctaaata cttttctat accttaattc 360
 caccattaaa tattaattcc cataactatt cattatccgt tacatttttt cgtcaactaa 420
 caaaccataa cttacacaga aatcg 445

<210> 18509

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A5

<400> 18509

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 aaggcgactc ctgtgattga tctttctggg acagtaggtg ctcaaggagt tgcatttggt 120
 gcagaagctg ggtatgacac tgctacagga aaatttacca agtacactgc tgcaattggt 180
 gtaaccaagc cagactacca tgctgcattc attctggcgg acaaaggtga caccattaaa 240

gtgtcaggtg tttatcacct tgatgagaaa cagaaggcct cagctgtggc tgagctaacc 300
cggaggctct caacaaatca gaacacactc acagtcggtg gactgtacac agttgatccc 360
cagacagctt tgaaggcaag actcaataac actggaacgc ttgccgcgct tcttcagcat 420
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<210> 18510

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A6

<400> 18510

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aatgcgacta ctgtgatgga tctttgtggg acaatagggt ctcaaggagt tgcctttcaa 120
acagaagctg tgtatataca ctgctacatg aaaatttacc aagaacacta ctgcttttgt 180
cataactaat ccagactacc attctacatt aattacgtcg gacaaatgtg acaccattaa 240
agtgtctaag tgttatcacc atgatgataa acagagtgcc ttatctgtgg ctgatctaac 300
ccttacgctc tcaacaaatg agaacacact cacaatcggg agactgtaca cagttgatct 360
caagacagct tc 372

<210> 18511

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A7

<400> 18511

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aagaagcagc agcagaagaa gaagacaccc accaccagca gcaagcagca atcagcaacc 180
agcataacga aatgtcgatc aagtactgag accagcacaa ggactgcgag cggcagcgctc 240
tgtaccgctg cttctgcgcc gtccctgggtg gcgtcatcgt gctcgtcctc ctcatcgtgc 300
tcacgtgctg gctcgtcctc cgcacaccca agcctcgctt cttcctcaac gacgtgagca 360

tcggtgtgcat caacgtcagc tacgtcttct acctcaccgt caccatgcag gccacgctgg 420
cgtcgcgcaa caccaacgac cgcgtcggca tctactacga ccgcgccgac gtgtacg 477

<210> 18512
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-022-Q1-K1-A8

<400> 18512

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taggagagag agaggagagg agaggagagg aggggcacgg agatggagag agcgggcccc 120
gtgaggagct cccacacctc gacggctggc ctgctcgcgt ggcctcacc c gatggcgcc 180
gggtcgctgc cagcacgccg gcctaaccag ccgacggagg aattcaggaa tgtggtgttt 240
ggggggcagc tcacggaggg ggccgacggc ctcaacaaga cgaagaggaa gacgggctcc 300
tcgcccagg ggaaggagac aacagggacc gggatatcca aggccgagag cgcgctcgtc 360
gccgtcgcaa ctgcctccc tgatcgtcag gctagccaga tcaccttttc ccaggacggg 420
accgttccta ccaggaaggc aacttcagtg gctggngtgg caaggcagcg tga 473

<210> 18513
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H4

<400> 18513

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actgtcacta atgtttgcct atgacaatgg agtcacctac aactgccgat ggtggtgaac 180
tgagagagcta cttctccttg ggtttgacag tatccactc acagaaagat aatgctgaat 240
ttccaaaggt tctgttgctt ctctcagcgt atcttgacaa gacagttcag cagaatgaag 300
agttactaga ctgcagtaaa ataaaggagt cgaccactat ctttcatggt cagaggggtgc 360

ctgaacttag tataaagctg catgcagagc gtattttcaa gtatgcaaag tgcagcccat 420
 cttgctttgt gctagcactt atctacatgg agagatatct acaacaacca aacttttacc 480
 tgacggca 488

<210> 18514
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-G1
 <400> 18514

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 cgtgctggcg ttgccgtcga ctccatcgag ttcacctata ctgacagcgc tgggcagagg 180
 cgcgcgcgtg ggcgttgggg tggacttggc ggcaatgttc gaacgatcga ccttggcaac 240
 gccgaggatg tcaggaagt ctcggaaca tacggcgcat ttgaagggtc cactacgctg 300
 acctcgctca ggctcgtcac cagcagcaga acctggggcc ccttgggggt cgagaacggt 360
 acgcgtttct ccgtcacggc gcccatcggc agcagcatcg tgggattcta tg 412

<210> 18515
 <211> 258
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-G10
 <400> 18515

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 cgacctgaaa actctgttac gactactcac ttgcataata ctagatacta aatacttgag 180
 ttctacatac gataactaa ctcatcact tgcctataca tatacatgca taactattac 240
 actataatat ctttctca 258

<210> 18516
 <211> 457
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G11

<400> 18516

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acattggcctt gaataattgg tgtgcgagga gtagaagtgc gtccggttat aatcttataa 120
gagcagagca ttgccgtggt gatacctgag tttctttggt gggcttgact ctatatgaca 180
gagaagggat cgggtgttaaa catgagattt gcgtaggggg aacctaattt ctgtttttaa 240
gcaatactgt actgtcgttt tgctatcaag tatatttgac cctcgattat atagattaca 300
ttgaagtttt tgggcaacaa tgtgaaatct tgtgataaat ctctgtgctt attggttatc 360
tgattgtaac tcgtcctttg taaactttgt ttgaatgagc aagtgaactg attgtcgata 420
aanaaaaaat tccacattat acttacacta tagctttt 457

<210> 18517

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G2

<400> 18517

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caccgttcgt gctggcggtg ccgtcaactc catctagtag acctatactg acagcgctgg 180
gcataggcgc tccgctgggc gttgggggtg acttggtggc aatgttcgaa cgatcgacct 240
tggcaacgcc catgatgtca tggaagtctt tcgaacatac ggcgcatctt tacgtgccac 300
tactctaacc tggatcatgc tcgttacctg cagcttactc tgtggteccct tctgcgacta 360
taacctgacg cgcatattca taaccgggcc catagacatc atcatcttgg gattctatgc 420
tc 422

<210> 18518

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G3

<400> 18518

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cgatggcggc tgtgctgaac agcaggaaga cgccgcaggc ggtggtggcc gtgctggtgg 120
cggcgggcgt gctggcttcg tccgcttcgg cggcgatcac ctgcgggcag gtgggggtcgt 180
cgctggcgcc gtgcatcccg tacgcgacgg ggagggccag cgcgctcccc gcgtcgtgct 240
gcagcggcgt caagagcctc aacagcgagg cgcgaccag cgcggaccgc caggcggcgt 300
gccgctgct caagagcctc gccaacagcg tcaagagcgt caacatgggc accgtcgcca 360
ccatccccgg caagtgcggc gtctccgtcg gattccccat cagcatgtcc accgactgca 420
acaagatcag ctaagttacg acgaccaagc taataagcct accgaacg 468

<210> 18519

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G5

<400> 18519

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cgaagaaaaa gaaagtttag ataaaatctc agggagctga gagcgacttg gagtctgaag 180
aagtccctgga tcaatccctt gccattggtg ccgagaatga aggtctggac aaggacgcag 240
ctgcaaaaact cacaatttac actgtagggtg gtgttttgaa gaatctgaca gagggccccct 300
tgagtgttat ggataagcac atatatgcag gacacactgt caaaccattt nccagcctga 360
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<210> 18520

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G8

<400> 18520

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gcgggacatc gacatcctgg tggatgaactg cggcctgttc gcgccgacgc cgctccttcgc 120
ggacatgggc acgcaccggt acaggctccg cggggacgtg cgcaacgtgc acctcgccgg 180
gatgggggtgc agcgcggggc tcgtctccgt ggagctggcc cggaacctgc tgcangtggc 240
gccgcggggc acgcgcgctc tggatggtgc cacggagacc atcaccccca attactacat 300
gggcgaggag cgcgcgatgc t 321

<210> 18521

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-G9

<400> 18521

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ttcctgggat ggactcacgc cctcgctggc ctatacatat acgtgtttat ttatttgtct 240
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tgggtgtggc ttttttgtac acttttgata cctaaatgga actcctatga tttgggtctg 360
gaaaggggtg gtgaagatgt tttgttccag gttttggagt tccgctcca gaatggcttg 420
acaagcatgt taattccatg 440

<210> 18522

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H1

<400> 18522

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ttcttcaact acccattatg cattcacaaa ctcttattt attaatacat tccaaaccta 180
 tgtcagtcta ttgtaaaact cactctaatt aaactatcac attctaacaa atatattcaa 240
 tttta 244

<210> 18523
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-H10
 <400> 18523

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<210> 18524
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-H11
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 gctaggctat ctcaatggag tgacctacat gtgcggttgt aggtgcaatg gtgagctact 180
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<210> 18525

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-H2

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tacttaaaact gcggcacaaa agtagcgcat ctatattcac atgggagaaa tggaacttca 180

tggaccgggtt tctcgttttc cactaggaag gattcactcg atcttcagtt ccacatacgc 240

tgcctttctg cactgttcat tttgccaga ttttcgatat agcaacaaca aatgccctaa 300

gcacaagcca gaatagattg tcatctttct tctgctgagc tttcaaagtt ctccataat 360

actgctgccc tttgtgacgt gtgaaggaaa ttataaacag taagcatgca acgcanagtt 420

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<210> 18526

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-H3

<400> 18526

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gggccaacat gcacttgcac cgacagtgg aagcgactac aaaccagacc agctgtctcc 120

aaaaaagatt acttaaaactg cggcacaaaa gtagcgcac tatattcaca tgggagaatt 180

ggaacttcat ggaccgctat ctcatatcc actatgaagg atccactcca tcttcagatc 240

cacatacgcct gactttctgc actgatcatt ttgccagat tctcgatata tcaacaacaa 300

atgccctaag cacaagccac aatagattgc catctacatt atgatgagct atcaaagtcc 360

tcctaatata ctg 373

<210> 18527
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F9

<400> 18527

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gggtactggcg aggacgtgaa gaagatcgct accgtgctca accaagccga ggtgccctct 180
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<210> 18528
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E4

<400> 18528

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taagctgctg aaggctgctg gtctgtttgc gggatccatc ttctgatgc ggaacttcgg 180
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tttgatttga tgggttatta ata 443
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<210> 18529

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-E5

 <400> 18529

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 tgtctgggga ctccattact aaggatgaca ttaaggtctt cgccgcggtg ccgtcgaaac 180
 ctggcgctga gtttccta at ggccgccgct ggtacgagac cgtctctgcg gctgtagcct 240
 caagattccc tggtaaggct gttggtgtaa atctgcctgc gggatcagct cctgcggcag 300
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<210> 18530
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-E6

 <400> 18530

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 cactacgaag acaaccaatg acggtttatg gtgatggaaa acaaactcga agtttccaat 180
 atgtttctga tctggttgct ggattgatgg ctctaattga gagtgatcac attggtcctt 240
 tcaacttggg aaaccagga gagtttacca tgttgagct agcacagggt gtgaaggaaa 300
 caattgacct aatggcaacc attgaattca aaccaacac agctgatgat ccccatatga 360

<210> 18531
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-E7

 <400> 18531

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tgggagttgg attatcagct cccagagact aataaccata ataaggtgac aaaggcagaa 120
gcgatgaacc agtcttgggtc cagaccagca gcagtaagga gcaatgcagg aaatcatctt 180
gccaacgacc tgaacccccg tgtacctgac cttgccgaga agctgtctca gttgtcaatg 240
ggccccaaca ggggtgtcggg tttgggttcc gagaggtttg ttagaaccca tgagaacgct 300
gccaaagcgcc ctttgcccggt gggatccagg gcgtggcatg gtccagctga ccccttcggg 360
cgcccatatg agatgccagg tgatagaact c 391

<210> 18532
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-021-Q1-K1-E8

<400> 18532
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gggtgctgtcc ctatagtact gctcagggag aggagctaag aaagcaaata ggcgctccat 120
actacatcga atgcagctcg aagacccaac taaacgtgaa ggcgctcttc gatgcggcga 180
taaaggttgt gctgcagccg cctaaggcga agaagaagaa aaaggtgcag agggggggcgt 240
gtccattttt gtgatctaata catcggtaga tgaagaaaca agggcgaagg tgccatggct 300
ttatcatcgt cgcgtcttgc ttcagtggaa cggcatgaat ggtccccacc ccctctaggt 360
ttactggcgg ctcggctgca gcgagttctc atctctttgt cgaggcattg agcgatatgt 420
tt 422

<210> 18533
<211> 420
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-021-Q1-K1-E9

<400> 18533
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attggatgcc tgttctggct tttggccagg atggttctgc agatgagggg cactatcctc 120
cctgggcaca agtgggaggt catggtggat ttgttcttct acagggaccc agaggaagca 180

aaggagcagg aggaggaagc tgctgttgcc cctgagtttg ccgcaatcac tgattaccaa 240
ggagctgata agtgggggtg tgaccagtgg acctctgatg tgactgcgcc gcctgttgct 300
cctactggtg ctgattgggg tgctgctcca gctccggttc ctaccggtga tggctgggat 360
caagctgggg ccctgcacc tgtggtggac ggcactgtac ctntctggt tgctcctact 420

<210> 18534

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F1

<400> 18534

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ttttgtttga ggacttcctt tgggcaaact caatcttctg gactcgagca ctgaacatac 180
cattgcctca ttcttatgtt tttctgggct catgtggcga tcaacaggcc aaggctgaca 240
atgatgcccc ccaggaaatt gatattacag ctaaagattg tagtgctgat gagaattcta 300
aaccaagtaa cacagagtca atttgggttg agggccttgt cccaggaatt gatttctgca 360
atcataatgt aaaggcactt gcaacatggg aaagtgattc tgtgggaaat gctaccggaa 420
t 421

<210> 18535

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F11

<400> 18535

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agggcacaaa gaagataatc aataagaaga aattgagcag ctgttggtgt ttcgcctctc 120
ttattcatag ttcttctaata gacattggac ttataactcgt cttctccaat gggaaacttg 180
aaataagatc cctgccagac ttgtccttgt tgaaggatgc ctttttacga ggttttgtgt 240
actcaagaaa cttgaattca agtagttcca taacatgttc atctgatgga gaagccatct 300

tgattaatgg agaagagacc tattttttct ctacgctctg ccaggatgag atatacaggg 360
acgtagacag cattagtaca gtgtacagaa aagagaactc aaccagggaa gactcttctt 420
ttgtagtg 428

<210> 18536
<211> 308
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-021-Q1-K1-F12
<400> 18536

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agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga ctcatgcctc gcgcaggacc 180
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240
agatcacgac caatgcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300
tcgggttc 308

<210> 18537
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-021-Q1-K1-F2
<400> 18537

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acttgacctc aagggcttga agaaagcaga ccaacaagct atcctggagg acttcaacaa 120
acacgcccct gcaccagccc ccgccatcaa acaccctgcc gttgctccga cgggtggcgac 180
accagttgcc acagcatctg tccagattgt gccatcggtg gcaactccag ctgtttcgat 240
tacaccaagc atggcctcct tgaagggagc actggcgaac caagaggacg tcctcgccccg 300
agctgccgtc cttgggcgag gagcagccac cacgggcttc aagaggttcc ttgcattgac 360
agaggccgtc aaagatcgca aggatggggc gatccgcaag ctcttcaacg cctaaaatgt 420
cgctcacctg tgagttcata 440

<210> 18538
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F3

 <400> 18538

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 atgattgata cacacatgcg tggaagaaat ggcgggtgatg ttattgtcat taaaagtggc 120
 tgggatgaat atggcatttc atttgctcaa ccaagctcca atatcagcat aagcgacatc 180
 acaggggaga caagaggtgg ttcagggatt gcctttggaa gtgagatgtc aggtggcata 240
 tcggaagtac gggctgtggg cctgcgcatt gtcaactccc ttcacgggat cagaatcaag 300
 acggccccgg ggcgcggagg gtacgtggag aatgtgtaca tagcagatgt gagcatggac 360
 aatgtttcga tggccatcag gatcactgga aactacggtg aacatcctga tgacaaatat 420
 gacagcactg ctctccctgt gataagc 447

<210> 18539
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F4

 <400> 18539

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 ggtccaggta agttgagatc tcatggcaac tgtatgccct ttttctttct tacttttgaa 120
 tcacatttca tacttgacct ttatcagcgg atgagacggc tgcaaattcc gagaaagcca 180
 gcattgccga agttgagcca ctggtaaagg atttcgagcag ccggtataag gccgcgatcg 240
 agctgatgca ctatgatgtg atcacatctt tcagcaactt tctttgcggg atggagatct 300
 tgagagcgac gctcgcacag ctctgtctat actacaccag gctctccgag tgtgtcaaga 360
 gaatcaacgg cggctctgct cttacaagg accttgtctc catatcctcc atcctgttcg 420
 aaatcaagaa gtattctaag acgttt 446

<210> 18540
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F5

 <400> 18540

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 ctgtcttggg cctcgacacg actaatactg tgctagtcca gaacagatga gccatagcca 120
 ttacctgtgt gcctcccagg ttcagttcat atgttgtatg tattaatgta tatcagaaga 180
 gtcgtgctta gtagtagcaa gaacctagtc ctgatccaga cctgaatct ggatcatctt 240
 gtcctgtggg tgtaccgtgc agaacagaca gatgtcggct agtcgtttgg ttctgaagta 300
 agaaactata agcatgctgt attttggcc 329

<210> 18541
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F7

 <400> 18541

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 cgtgcagacg accgccttct ccggcctctc cctcggtgac tccatctggt ctccggtcac 120
 cggcgccggc gggcggcgca acaacaacac cgacctactc gcggcctccg cgtcggcagc 180
 cgacgccggc aagcacaacg gcggtggcct cagcctgaat gatggagggc ccggactcat 240
 tggctccggg aagctcgtct tcggcggcag caaggccggc cgctacaaca acctcccatc 300
 cgagaaggcc gcgcccgtct acaaccacag cggcagccac gatcaacggc ggctacgcca 360
 ggagcgacaa cgccggcctg gcggcggttc acacgatggg gagctacttc 410

<210> 18542
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-F8

 <400> 18542

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 cggaatggt gaacagcagc catgcttggt atacagttcc actggaagca gtgggcccta 120
 gcggaccatc agggagctat agtgctggtt ctgttagctt acagcaacca aggaatgaag 180
 agcagcttac gcctgatgtg gagtcagctc ttctgcagca aagtcttgca gctgacaccc 240
 gagcagctga gttcgttgcc accagagcaa cagcagcagg tgattgagct ccagaagatg 300
 ctttcagtta gtaaatagaa gcaactgaga gctaacgcag caaaaatgct gggtgagaat 360
 ctggcacatc acataatggc gagttggtaa ctagtggaaa ctggaaatga tcctcagatt 420
 tgttatgaag tcaccacgcc ggct 444

<210> 18543
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-E3
 <400> 18543

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 tgctctggag gaggcaaggc tggcaatcga gcaagtagtg attccgaaag gcgagagcgc 120
 gcagctactg ccgaggccat caagcatcat ctgcgtccaa gtgggtctcg tcgaaagctt 180
 cagcctcaag tgggaggtcg taggccagga gcctaaggca tgcgtgagga tccttccgca 240
 ctttgcgcca aaacaagtcg aagctgtcgc gcgagaaacc ccagcggagc ccgtcgactc 300
 ggactgggag agccacgatg actcggatca taccagagt ggcatcacca agctaccttt 360
 cctaccgat tagcgnccgc tctggcgat cctntcagtt cttcgtggcc ctgccgncgt 420
 ctgngtatgt attcatnta attaactctg taataacttg caccca 466

<210> 18544
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-C8
 <400> 18544

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gctcgtgtat caaggccggc aggaagttcc ccggcttccg caccaccgtc gactagcaga 120
cacgcacgcg aaagctcgcc gacttcttcg gccagacgta ccacgaaacc accactagat 180
gggccactgc tccgcatgga ccgtttgcct gcggatactg ccggatgaac gaacagaaac 240
acacggaccc accctactat ggactaggac ccatacagct aactcataag tacaactaca 300
ggctcgccga gcaagcgctg aacctgaacc tgggtgggcca ccagacctg atgacgatag 360
accccatggt agccttcaaa accgccatct ggttctggat gacgccgcaa acacca 417

<210> 18545

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C9

<400> 18545

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gtgcaccgtg ctgttcttgc gcccggtcga gggcattcgc tttgtgatcg atagagaaga 120
gtgcttctcg cataacgtgg agtatgaggg ggatactgtc catgtatcct tcgtcgtcat 180
caaggctgac acccgtggc attacagcga agaaggcggt gatcttgtgg ttaaggatcc 240
taatggcgct caagtccgtg attctcgaga taagactagt gataagtttg agttcatagt 300
tcagaagaga ggcgtccatc gtttctgctt cacgaataaa tccccgtacc acgaaactat 360
agacttcgac gtgcatgttg gccatttttc atacttcgag cagcatgcca aagatgagca 420
ttttgcacca cttttcgagc 440

<210> 18546

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D1

<400> 18546

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ggggcggtca tcgaggccgg cagcaagttc cccggcttcg gcaccaccgg cgacgagcag 120

acgcgcaggc gggagctcgc cgccttcttc ggccagacgt cccacgaaac caccggtgga 180
 tgggcgactg ctccgaatgg accgtttgcc tggggatact gccgggtgac ggaacagcaa 240
 cagacggacc caccttacta tggactagga cccatacagc taactcatac agtacaacta 300
 caggctcggc ggaccagcac tgcacctgca cctgcctgac gaccctgacc tgggtggctag 360
 agacccccctg gtagccttca agacggccat ctggttcttg atgacgccgc 410

<210> 18547

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-D10

<400> 18547

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 gtgcgcactg gcacgtaccg ccagctcttc caccctgagc agtcatcag tggcaaggag 120
 gatgccgcta acaatttcgc ccgtggccac tacacaattg gcaaggagat tgttgatctg 180
 tgccttgacc gtatccgcaa gcttgctgac aactgcaccg gcctccaggg ctctcctggtc 240
 ttcaatgccg ttggtgggtg caccggctct ggcccttggtt ctctcctcct tgagcgcctg 300
 tctgtggagt acggcaagaa atccaagctg ggcttcactg tgtaccatc tncccaagtg 360
 tcaacctctg ttgtggagcc ttacaacagc gtcctctnca ctactcact cctggagcac 420
 actgatgtct ctatcctgct cgacaacgag gccatctatg aca 463

<210> 18548

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D11

<400> 18548

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 ggcaacgctg acacgctcac tcgtgcgtgg cactctacac atgattaccc acacaatcca 120
 ccaactgttc tatatgtctc taacatgatt catccaaata tatatacttt tggaagcatc 180
 ttcttagata tactacacaa ccagtggagt cctatatatg acgtcgtgc aattttaact 240

agtatccagt acctgctgag cgatccaaac ccaaactcct ctgcaaactc ataaacagca 300
cgactgttca tctagaacaa gcacgagtac aaccgcaa 338

<210> 18549
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D12

<400> 18549

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ggcgcatgcc tctctccttc gactcgcaca tgtgccgttt aacgggaatg gcagaaacta 120
ccgtgcggcc tttgagatgc tggaggacat tttgaactct gcacaccctc tccatcgtgc 180
tgtgcaagag gactcctaca agctcgtgtg catcgatgac tcggctgcca gggagattgg 240
ggagatggtg cacagtgagg ctttctggat agaggtggat gctgcgcatt cgctcgtgaa 300
gctgatatat gatatggtga atgagatgga agctgatcta cctattgtag ggcattgcct 360
gccgctattg ggaagaat 378

<210> 18550
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D2

<400> 18550

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agctgctctt gccataattg atgagatggt tgatgctggc ttcactcctt ccaaggatac 120
cctcaggaag gttcgaagac ggtgctctcg tgaatcagac ttcgacagtg acgagaaaagt 180
ccaatccctg gcaaagcagt tcaactaccg aatgggtggt gagaaccgta gagagatgct 240
ttatagcata gaatacaatc ctgtgtactg aaacagcagt tgctactgag tttgctagcc 300
attgggagag cacagacatt gtagcttgta aattacttgg atgtaccagg attcttaagc 360
aaattttcag tttctcgatc atcatttgtg ctgcgagggt tcgttttagg atttgctaata 420
aagatgacac ta 432

<210> 18551
 <211> 79
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-D3

 <400> 18551

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 ctgactgagc cgccagctg 79

<210> 18552
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-D4

 <400> 18552

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 ttacaatata cgatcacata actcatactc cctccactcc ttccacatct tccccaatca 120
 taactcctac actctactct cctgcatcac actcatacat attaccatac actccaacaa 180
 tcaccaaatt catcactact accccataac ccacttcgaa catctacata catcatcaac 240
 aatataacaa acacctctta taacactacc acaattatac aatatctttg ataccatttc 300
 atataactaa aacattagat cagtactacc actcctacaa tacaaaagtt tatcacacac 360
 tccat 365

<210> 18553
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-D7

 <400> 18553

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 cacttctggg aacaatattg tcattcagggt attctctata cagtacttat gggaaaccaa 180

gagcatggaa catgccagca attcaagctt ggttgcagtc tatacttgca acaaaggatt 240
 ttatccattt aatgtttctt tctatgctct tcacatccca attgcacttg aagattgctg 300
 cactacctgt gttttgctgg gcgcttgacc at 332

<210> 18554

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-D8

<400> 18554

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 ggcgggcgacg gcagcggcgc tccggtgctg cttccccgga tcctccggtg tcggtagtgg 120
 cttcgtcaag cccaactcct ccaggcgagg ctggtgcgca gcggccgtgg cggcgccgtc 180
 gcgggagggcg gaaccggttt cgtcgtctggg gcaccgcacc cgcgtcgact tccccatcct 240
 tcaccaggaa tttgatgatg ccaaattagt ttacttcgac aatggtgcaa catcgcagaa 300
 accatgtagt gtgatgaaaa cattagatga gtactaccga tcgtacaatt cgaatgttca 360
 tcgtggtatc catgcactca gtgcgaaggc tactcatgca tat 403

<210> 18555

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-D9

<400> 18555

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 ggagggaggg aacaacgtct cagctggatc tatttttttt tatgagatag tacagagtag 120
 acatgggcta gcggaacgca gcacgagAAC gaatccacag gagggtaaaa aaaaccgccg 180
 ctgctccttt gagaggaggt cgtccatca gaagagtac gaggcgatcg cggagaccac 240
 ggcgagcgcg acgccgccg tgaccccagc ccggaacttg acgccgctgc ccgcggcgct 300
 gtcgctcgca gggttgccg cggctgacgg cgtgatcttg gaggcgttgg cgaagagggc 360

gtagtccgca gagcctggct tcaggttcag cagggtgatg canagcgaga 410

<210> 18556

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E1

<400> 18556

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gttgccaaaa caccttgccg gacacatctt gctaactttc acttctggca acaatattgt 120

catcactgca ttacttatgc agaccttatg gtaaaccaag agcatgcaac ataccatcaa 180

tctaagcttg ctatgcacct atacttgacac cagaccattt tatccattga atgctctcta 240

ctatgctcta tacatcccaa ttgcactcta acatcgctgc actacctgtg tttagct 297

<210> 18557

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E10

<400> 18557

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cgttcgccgc gagctccggc accccgcagc cggccggcac gccttcggtc cggcggacgg 120

cagcagcagc atgtcttcgg ccgccccgct gctaggcggc gaggccggcg gtggcgagcc 180

cgcgcgcggc acgccgtcgc cgtcgtcgtc gtgggtgggg cgcgtggtgg acgcggcgga 240

tgcgcgcgcg cagctggggt tcgcggtgcc gatggtgctg accagcatgg cctactacgg 300

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cacgctcg 368

<210> 18558

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E11

<400> 18558

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gggttatcac atccagatgg acgccaata cgttcagtac cctccttttg tctgcggcat 120

ctactatccc actatcgacc acttacatat actctcactt aactcctacc atacagatca 180

tatacccaag accctattca atcggctcgac tcacatcatc ctctgcttca acatcatctt 240

ctagctcacc caggaggagt atct 264

<210> 18559

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E12

<400> 18559

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gagctccatg gtcagaccct gccaccacag cgtcggtggc tcggtgccac cgatgggact 120

cgggcgccaa ccagccatct gtgtatagct agctatatga ttagctccat gatgtacaat 180

attattaggt gtgtatgtat gtagccggat gggaatcaca gggaaatcgt acagaagggt 240

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<210> 18560

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-E2

<400> 18560

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agctccgcgc cctcatcgcc gagaagagct gcgcgccct catgctccgc ctgcggtggc 180

actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg tcccttcggt actatgaagt 240

gcccggcgga actggctcac ggcgccaacg cggggctgga catcgcggtg cggctgctcg 300

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394

<210> 18561

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C7

<400> 18561

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gcggcgggacc ggcaggccac ctgcaactgc ctcaagagca tgaacggccg gctcggcggc 360
ggcgtcagca tggccaacgc cgccaacatc cccggcaag 399

<210> 18562

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-B3

<400> 18562

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gccgtgctgg gccagcagct ccggggcggc gacgtccccg tggcggtgat gcggcccagc 180
atcatcacca gcgtccggcg cgacccgctg cccgggtgga tgcagggcac ccgcaccatc 240
gacagcatca tcatcggcta cgccaagcag aacctgtcct gcttcctcgc cgacctccgc 300
ctcgtcatgg acgtcatccc cggggacatg gtggtcaacg ccatgatggc ggccgtgggtg 360
gcgcactcgg aggcgttcgc gccgccgctg ccgcangtgg tgggtgta 407

<210> 18563

<211> 464

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-B4

 <400> 18563

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 gggaaccaag attggaactg aacctgtggg atttcagcac agaacctgat gattgtgtcc 120
 ttgatttaac tctcagtctg aagccaagtt tttctggaac agaccttggg aagcatgttc 180
 cacgacgtac agaagaggaa attctcctgt acccgggatt tgagaatacc cctgtgaagt 240
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<210> 18564
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-B5

 <400> 18564

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 aggtagcacc agctcttgag taggactagc aaggaggcac gggggagaaa acttgtctgt 180
 ctattcaagc tttagcacca gctcttcgcy tttgcagtat agatgtaaaa aggtttggtt 240
 aaaatctgat gctacgaaaa ttggctggta attattttgt actggatttc cccttagaat 300
 caaatataga tggatggcta gtgcctggtg gtgatgggat tcaactgtgt tattccaaaa 360
 aaaaaaaac gtgtggtgat ggtgggggtc aaaaaaana aananna 407

<210> 18565
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B6

<400> 18565

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gctgaagagc aggaagacgc cgcaggcggt ggtggccgtg ctggtggcgg cggcgctgct 120
ggcttcgtcc gcttcggcgg cgatcacctg cgggcaggtg gggtcgtcgc tggcgccgtg 180
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gagcctcaac agcgcggcgc ggaccagcgc ggaccgccag gcggcgtgcc gctgcctcaa 300
gagcctcgcc aacagcgtca agagcgtcaa catgggcacc gtcgccacca tccccggcaa 360
gtgcggcgtc tccgtcggat tccccatcag catgtccacc gactgcaaca agatcagcta 420
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<210> 18566

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B7

<400> 18566

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gaagactacg gcgaggcgga tatcgcatat gaattagctc ctgtgactgc tcagctcgct 180
tacgcgcacc agctacacgg acaatctcac gaagctatgc caacatatgc tcatatgata 240
aatgggtcagt cagctgattt atcatcactc gctgtggcaa caacatatct gatttcaat 299

<210> 18567

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-B8

<400> 18567

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cgacgagtgc atctgctcca agaactgcgc ctgtgccggt aagtgcaccc ttgagtcggc 120
 tgatgctgtc cagacctgct ttgtcgactg cgtcctcaag aacgactgca tctgcagcag 180
 caagatcatc cccggcgctg acgacccaaa ggctaatagcc aagtgaagta gtactatcat 240
 cccaaataat gtcctacgta tagtacctgc tgaataaacc tnccatgcac caacagggag 300
 agagtctgta cgtcttcttt gtaatcatga accgcttgta cgtgtaatat ataataaacc 360
 actcttcacc ttacacat 378

<210> 18568

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B9

<400> 18568

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 tgaactgtgc atttgtacat gactacatgt caccagata aatagctggg ttatttagga 120
 ctgtactgtt tgatgttctg gggtatttag gattgtgata gtttgatgcc ttgatctctt 180
 ctgaagggtt tcgtttcctt gaaggatgta gaaacaacac gcaacaaccc ctttcatgta 240
 tgctatttac catttcttgc acagatgac aataaagatg tttcgtcttc 290

<210> 18569

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C1

<400> 18569

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 accggtgacg agccacagta gtgagctagg ggtcttcgtc ggtgagcgcc gcgcgcgaag 120
 aaggctcttc taggcgaaaa cggtggtcga agtgctggga aatgctcgcc ggagccaatc 180
 cctcgaggcg gaaccgtgct gcgatgcaa catggctcgc cgtcaactct accgacgacg 240
 aacaagtgac cgaggaccct ggtactcagc aggtggaaaa ctccgagcag gagctcattg 300
 aagggtgaaga gcaggtagcc caggaggacg actgctacga ggagtttgac gaggtctagg 360

agtcgtctcc cagttgactt aatggcgcca aggaaataat attagttcgg tttattgtta 420
 tgatttatct ttataagaca ctttcacttt gtaaaaatgt ttgcgatatt tatctctaaa 480
 aa 482

<210> 18570
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-C10
 <400> 18570

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 ggaatataat gtccgtgttg cctccaggta ctccaagggt cctgagcttc ttgttgactt 180
 gcaagattat gattactctc tggacatgtg gagtctgggc tgcattgttg ctggaatgat 240
 ttttcgtaag gagccatttt ttacgggtca tgacaacat gatcaacttg ttaagatagc 300
 caaggtactt ggaacagatg ggctgaatgt ctatttgaac aagtacagaa ttgagcttga 360
 ccctcagctc gaagcccttg ttggaaggca tagcangaaa ccctggacaa agtttattaa 420
 tgcagacaac caacacctag tgtctcatg 449

<210> 18571
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-C11
 <400> 18571

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 gggcgtagt gtaccataa acataggatc tgtgcttcac agccgtcccc ctcaccctgc 120
 caaatatgga ttcacgcgt ctccgccggg aaacccccca tgggggtccc ctcaccatgc 180
 gcccgcttcg ggcgcactc cgtgtgcgcc ttcacaatat eggctcctgt ttccagctgg 240
 agcaggtggg cgcactggat ggtggagtct gtgtcgccgt ctacgcattc acccgcgacg 300
 gtggtgagcg actgcagcac gctgtcgct ccgcactcct tctgtaatc cagcgctcatg 360

cttgcgagct cgtgcttctc caggatcgcg atcggagcac tctcaagaat ccaaccgatg 420
tacttgacgt tattcacgtg ctggttgaca tcaaggta 459

<210> 18572
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C12

<400> 18572

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ccctgectcc gccttcatt ccgccgcgcg gcgctgccga gtgccgacgt cgtecccgcc 120
ggagtttctg gtttctgggt tggatctctc ggagtcggag cgagcgagga tgggcggcgg 180
caacggtgaa accaccagc tgggggagcc actgctggcg aagaaggcga aggcgtaccg 240
ccctaggtgc cccggctgcc gggaggaccg ccttaacgcg gagcgggagg gggctctccc 300
tctcaaggac ctcttctca tctggctcgt caccatcacc tgcacctgc cgatccagtc 360
tctgttcccc ttcttgatt tcatgataag ggatctgcat atggctaac aacacaaga 420
cattggattt tatgctgggt tttgt 445

<210> 18573
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C2

<400> 18573

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tcaggcgggtg gtatttacac atggggttga cgatgcctgg cctgtaccga cttgccact 120
gcattgatgt cttccaccac aagctcaaca tcgtgtctcc tctcgcgcac ctatccatct 180
acttaccgta cacctactcg cacaatacac tgacctgcct tcaccggag attgaggagc 240
tcctgtacac acaatccgct aacactgagc acaacttcat acttaacgac tggatcaacc 300
ccatcatatt ctacatggc 319

<210> 18574
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-C3

<400> 18574

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 tggccataga agccacatag taggacccaa caatgagaat tttccaaggc accaaccttg 120
 ttcatacaca aacagaaaca agagactcat gcttaggtca cgagcacaaa ggataagcag 180
 tcagctgctt gcaagccgaa agcttatgcc atggcaaadc cctaaaaggg actggtttcc 240
 tcctagcttc atctttggtg ccgncaccgc agcataccaa attgagggcg cctggaatga 300
 agatgggaag gggccaagca attgggatca ctctgccac aattatccgg attggatact 360
 ggacggaagc aatggggaca ctggagccaa ttcctatcat atgtaccctg cggatgtcaa 420
 attgcttaag gaaatangca tg 442

<210> 18575
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-C4

<400> 18575

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 atacctatcc atttactadc catcaactta ctacacaaat cctctaactc ccctccaccc 180
 ctctattaat caactctcat ccacacaadc cactaacact catcacagat cactacacaa 240
 ccactaaaac aaaca 255

<210> 18576
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-C6

<400> 18576

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agcagcagcc caaagagcca gggacttcca cattggctgg tttgttgatc cattgataaa 180

cggacactat ccacagataa tgcaagatct cgtgaaggag aggctgcccc ggttcactcc 240

tgagcaggct aaactggatga agggctcggc agactacatc ggtatcaacg agtacacatt 300

cagctacatg aaggggcaga agctgggtcca gctggcgccc agtagctact ctgccgattg 360

gcaggttcaa tatgtttttg cacgcaatgg caaacgatt ggaccacagg cgaattctaa 420

gtggctctac a 431

<210> 18577

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B2

<400> 18577

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tctgcggatg ggtaaacctc tgctacacat ctgcggcgctc gatgatgacg cctttctgac 180

acagcatgac atgcaactga acaatgctat tctcgctgag gagaagcact tgcctatgta 240

tgactagttg gtttagcaaga gcaatgctga atatattgcc ggacgagcta cgcataactc 300

tatcagggat gcccaatgac atgcttgaaa ctctgatgc aacaagttac atgggatgca 360

tcggaagga caagtctggc gatgaaatga gtattaacgc tcaacctgca cgagtcactg 420

ctcattccta cgaggatgag actgctctta ctggcacatg tgctgtatgt g 471

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<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A10

<400> 18578

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 caggtcgcca tgaaccccat caacaccgtc tttgatgcc agcgtctcat cggcaggagg 300
 ttcagtgatg cgtctgtcca gagtgatatc aagctgtggc ctttcaaggt ctttctggg 360
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<210> 18579
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-A11
 <400> 18579

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 cacgatgtaa aatgtactca ctgaatagtt gcttatggat ggctgataa agtaccttcc 180
 aatttcaagc gccggaaaag aagagtactg ataggctaca tgaagatcac taaacaccac 240
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<210> 18580
 <211> 110
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-A12
 <400> 18580

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<210> 18581
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A2

<400> 18581

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actgtacaag gcataatgac agtccctctt catggctcga gaaatttggg gcaatgacta 180
caacctttac ctacctctca tctctagagt gccgattgaa aagatccgct cattcacacc 240
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tgctgctgct gctgatctga catattatat agatagtaat gtaactgatt ggtgtttgcc 360
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<210> 18582
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A3

<400> 18582

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attgggtggtg ctcttgcatg gagttctttg ctttcttcta gaagccgtga taggagcatc 180
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ccaggaatgc atataccctt aagggtcaatg agaagagcat gtctacacct ttggtgtcgt 360
gcttcttgag ctggtcaccg gaaagaagcc agtatgtgag ttttgggacg gcgtcaacat 420
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<210> 18583

<211> 486
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A4

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 attactgcac cttacgaagg agctgatctg gtttggtatc cagtgcacatc cgcattgggt 360
 aaagcatcat ttgatggacc tgagtgcac aaagaggtac atatcggagc tactgataag 420
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<210> 18584
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 18584

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 aaccgatccg gcgcctccca gcatggcggg ggcgaaggcg gcgggagccc tggctcttgc 180
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 cacctgggtc cacgtcacct gcgaccgga caaccgcgtc acccgctag atcttggcaa 360
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<210> 18585
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A6

 <400> 18585

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 agatccatcc aaccacgaac aggaaggaag gtaggaggcc tgaagggtg ggctgaagtt 180
 gaaccatgag tgccgtcgcg gtttcgtcgt cgctgaacct gaacgcgccg ctcttcatcc 240
 cggcggcgct gctgcaggtg gaggacttct cgccgcagtg gtgggacctc atcaccacca 300
 ccggctggtt ccgcgaccac tgggtcccgcg agcacgcca cctggatgag atagccgagc 360
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<210> 18586
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A7

 <400> 18586

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 cgacaggaat ggtggtatcc agattctaac ctgcatacc cttcaaccg tgccggttgc 180
 cattggaggc cctggtcttc accccggagt gaaattccg aacgacattc aaatccctgg 240
 gctcgccaat gtagccgcaa ctgtgatgaa cctccatgga tttgaagccc ctgctgacta 300
 cgagcaaacc ctaattgaag tggctgacaa ctaaatactg gccagctatg tccaattttg 360
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<210> 18587
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A8

<400> 18587

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ttgggggtgc tcccaaaatt cttgatcgaa gaacaattcc agttcttggg acgactggga 120
cgaccaggc aagaaagatg agcctgcgaa accgcaccag agcagtgact cctgggctgg 180
ctgggatgat gggaaggatg atgggtttga tagccctagt tacaacaatc acagcacctc 240
caacaagggg agcaaccaa acgggacatc cgggtggcaca ttttggacag aaggcggctt 300
ccgctgaaac cagtctcttt tccatagagc tatactttca gattgttac atgccaggaa 360
acgtgaaggt ccagtgggtg gtattatttg ggatacttaa acagtcgggt gaaagggttt 420
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<210> 18588

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-A9

<400> 18588

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tagcaacca agtcaccttt tacatgatcc cagccctgct tcttgccctc aagaacagca 180
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ttcttctgga ctacgtgcac catgatatca ccagaaagtg ggctttgatt tacttcaagc 300
tgcttttgct ggtgatggcg aaggacacca tcatgtactt caatctgttc taagctcacc 360
ttttcagttt ctcaaatac cagcaatgca tccgtctctg cactcgtaga ataatgatga 420
tggtgaatt atgcagcctt cgttcttgta ttct 454

<210> 18589

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B1

<400> 18589

tactactctg tccctcgtct ccccaaactc catctacagc acaatggact ccacccctctc 60
gtagggctcc attaaccaag gtccacacacc cgatctcgat cacacacccc gcatcccaac 120
acctacactg cacactcaca c 141

<210> 18590

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B10

<400> 18590

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ggctttaaaa gttcgatata ctcagaggat caccattctc agaggaaacc atgaaagccg 180
gcagattact caagtgtatg gggtctatga cgaatgctta aggaagtatg gaaacgcaaa 240
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agaaatattt tgcttgcatt gtggattatc gccatccatt gagaccctcg acaacatccg 360
caactttgac cgtgtccaag aagttcctca cgaagggtcca atgtgtgatc ttctgtgggtc 420
tgatccagat gatcgggtgtg gttgggggtat ttctcctcgt ggtgctgggtt atac 474

<210> 18591

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-B11

<400> 18591

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agtagtaaat catcgacgga ggctagctcc tgccctctgct gtgtgtaatt actgtatgtg 120
agtgaccgat cccatcgatg tgcgttcgtc ttgtggagac gctgcgtgat cgcgcgattg 180
gtttcgcttt cgcgcgcttg tttttgcacg aggagggttct gctagtgcgt acggggagaa 240
taaaagcagc attcctgctg tccaaggcct gtccct 275

<210> 18592
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-B12

 <400> 18592

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 gctccgtatg atctctactt gcagaaatac cccaggtgat ntctgcgttt gcgactgcat 180
 gaactgcgat acgagctttg ctatgtgcc a gtatttacag aaacttagac ttgagttttg 240
 gcttttgagc ctttgatgg ttcttccggt ccagatagtg gtaccattag ttgaacgaaa 300
 tatttgaaa tggtgttcca cagtagatat cggatggaca ataggatata agtactggat 360
 agagacacaa gttgtcgta acatcngttc ttacttcgct attaatgttt ttgatgacgt 420
 cagacattaa tgtggatgga 440

<210> 18593
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-021-Q1-K1-A1

 <400> 18593

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 aaccgatccg gcgccctcca gcatggcgga ggcgaaggcg gcgggagccc tggctcttgc 180
 gctcgtgctc gcgctcgcgg gggccaactc cgagggcgac gcgctctcgg cgctcgcgccg 240
 gagcctcagg gaccccgcg gcgttctgca gagctgggac cccacgctcg tcaaccctg 300
 cacctgggtc cacgtcacct gcgaccgca caaccgcgtt acccggtag atcttggcaa 360
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<210> 18594

<211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G4

 <400> 18594

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 ccaaagcatt ccctaaaaac tccccactc cgccacatct acaccccacc catttaacct 180
 acacaaacta accaaaaa 198

<210> 18595
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G5

 <400> 18595

 tcgcgccagt tgaggtcctc tgtaaatcat atccatcaga gtttactgca tacttgcatt 60
 actgtagatc actacgattc gaagataaac cagattactc ctatttgaag agactcttcc 120
 gtgacttatt tatccgcgag gggtagcaac tagattatgt atttgactgg accattatga 180
 aatatcctca gtttagagat aaacgcaaaa ttcagtctag cggcaagatg agtgggttgg 240
 caggcccttc tgcagaaagg actgatagaa ctgcagctga agctttgttt agaaggactg 300
 gatctgggtc tggtcacaat cgagagcaca ccaagcacag aagtcttctg gagtactga 360
 tgccatccaa agcttgtgat tcggataaag caaggccaca atcatcgctg cgcaacggga 420
 gcaca 425

<210> 18596
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G6

 <400> 18596

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taatgctggc ccgaacacca atggcagcca gttctttatt tgcactgtca agacaccttg 120
gttggacgga aggcattgtcg tgtttggcca ggtcctggaa gggatggatg tcgtaagtct 180
gatcgagtcg caggagaccg acagaggtga cgcgccgaag aagaaagtag tcatcagcga 240
gtgtggggag cttccagtgg tctaagtgtt actcatctgt tgcgggtctt acctaacctc 300
ggatggatgg cgatatttcc cccacctgaa cttgtcgt 338

<210> 18597

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G7

<400> 18597

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gtcctctcgg cttccttccc aggaagcgtt cctcccgta cgcgggcaag gtgaagtcat 120
tccctaggga tgacccaag aagccttgcc atctcactgc cttccttggc tacaaggctg 180
gcatgactca cattgtccgt gaggttgaga agccaggatc caaactccat aagaaggaaa 240
cttgtgagga tggtaccatc attgaaaccc ctctcttctt cattgctggg ctctgtggcat 300
atgtgaagac tccccgtggc ctccgcacac tcaactctgt ttgggcccac catcttagcg 360
aagaagtgag gagaagggtc tacaagaact ggtgcaagag caagaagaac gctttcaca 420
agtatgctct caaatatgaa aatgatg 447

<210> 18598

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G8

<400> 18598

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gtaaaaagaa ggcggtgctc ccggttcctc cttcctgtg atctccttcc ctagtcttca 120
cccctatata ctttgacatc tgactgccta acttacctac gtggctcacc ttactcacat 180
tgaaaaccac ggtgacactt ccctatccaa ac 212

<210> 18599
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G9

 <400> 18599

 caaccaatga tgttgggtatt gctaaggatg gtacccaaaag ggaaactttc caacctgggtg 60
 tagaactaag agggcgaata aactgcttg ctgagggttg ccgcggttcg ttatcagaga 120
 aaataataag aaatcacaag ctgagagaga gaaggcaagg gcaacatcag acatatgctc 180
 ttggaattaa ggaggtttgg gagattgaag aaggaaagca caatccaggt tctgttattc 240
 atactgttgg atggcctttg gatactaaaa catatggagg atcattcctg taccaccttg 300
 atgatagaca gttggcaatt ggtctggttg ttgcgttgaa ttatcgaaat ccgtttctga 360
 gtccctatga tgaattccag aaatttaagc agcacctgc tgttagaaaa cttttggaag 420
 gtggaacagc tattcagtat ggtgcacgta ctctcaatg 459

<210> 18600
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-H10

 <400> 18600

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 caacagggtc atcgagggtg cctccggaa gcacattatc atctgcattg aggaccttgt 120
 gcacgagatc atgacggtga gccacactt caaggatgcc aacaacttgg ctcgccggtt 180
 caagctgaat gcatcccgtt gcgggctcaa taagaagagg aaccactacg tatagggcgg 240
 tgacgcctga taccgataga actacatcaa cgagctcatc aagaggatga actag 295

<210> 18601
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-H11

<400> 18601

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gggcgggctc gacgagatgg cgctccggaa gctcattatc atccacattg acgaacgtgt 120
gcacgcaact atgacggcga ccagacagtg cactgaggcc aataactcgg tgcggccgctc 180
caaccgcaat gtcctctgtat gggcgctgaa tacgaagcgg acccaatacg tatagggctg 240
tgacgcatga aaccgataca cctacatcat cgagcgcgtg acgaggatga actaggcacg 300
gtcttggtatc ctgtgagaaa gcgtctcagc gtcagcgtga tcattttttac tgtaatcagc 360
tgacaggtca tgatcgacat gcaa 384

<210> 18602

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H12

<400> 18602

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tcacgactgg gattttgttt aggcttgtcc taaaaaggaa gttgtccaat atacaatgga 120
tggaattgtt tttattggct gttggtacaa ctacaagcca ggttaaagga tgtggagatt 180
caccatgtga ttctcttttc tcagcaccat tggagggtta cttgcttgga atactttctg 240
cttgtctttc agctctagct ggtgtgtaca cagaatattt gatgaagaag aataatgata 300
gtttgtactg gcaaaatgta caattatata cgtctggagt tatctctaac at 352

<210> 18603

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H3

<400> 18603

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tcttgtgtcc gtgcaaattg gtgatacttg aacagggatc tcctccatat tagtgagcag 120
gatgtataat cctcccagtg ggcaggacat gtcctactac gatcatgtgc agaagcgcca 180

tgaggagaag ggctgcctat atgcatgcct gttcactgcy tgctgctgct tctgctgctt 240
cgagacctgt gagtgtgcc tgcaggccat ctgctgctgc tgctagttct gcttggaggg 300
catgggcgtc catcatcgtg gagatgtggc catgcgggac acccaccgcc gaataaaatg 360
ctgtacttat atgcacgcac gttagaaatg cattagtgtc tgtttgatgt gatcttgtgt 420
gtgtg 425

<210> 18604
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-H4

<400> 18604

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gaggacctga tgggtgcggcy gngggcgcyt ggcyggcggtg tcaccaactg ggcyctcgtg 120
tccatgaacc acgacacgca gtcgtgcatg gaccccaacg tgatggaggg caaggtggtg 180
gtcagctcct gcggccacga cgggcccttc ggcygccaccg gcgtcaagag gctccaggac 240
atcggcata tgcagcgccgt gcccgggatg aaggcgctcg acatgaacgc cggcgaggac 300
gagatcgtgc gcctcacgcy cgaggctcgtg cccggcatga tcgtcaccgg ga 352

<210> 18605
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H5

<400> 18605

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tcttgtgtcc gtgcaaattg gtgatacttg aacagggatc tctccatat tagtgagcat 120
gatgtataat cctcccagtg ggcaggacat gtctactac gatcatgtgc agaagcgcca 180
tgaggagaaa ggctgcctat atgcatgcct gttcactgca tgctgctgct tctgctgctt 240
cgagacctgt gagtgtgcc tgcaggccat ctgctgctgc tgctagttct gcttggaggg 300
catgggcgta catcatcgtg gagatgtggc catgcgggac acccaccggc gaataaaatg 360

ctgtacttat atgcacgcac gttagaaatg cattagtgtc tgttcgatgt gatcttgtgt 420
gtgtg 425

<210> 18606
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-H6

<400> 18606

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gcgggggtgc agagagatcg agatccggag gccgcgagtg ggagcgccac caccagcgac 120
tgccggcaatg gcgggcacgg tgacgggtccc ggggtcgctc accccctcca cgccgctgct 180
caaggacgag ctgcacatcg tgatcccgac gatccgcaac ctgcacttcc tggagatgtg 240
gcggtccttc ttacagccct accacctcat catcgtgcag gacggcgacc cgaccaagac 300
catcaaggtg cccgagggct tcgactacga gctctacaac cgcaacgaca tcaaccgcat 360
cctcggggccc aaggccttct gcatctcatt caaggactcc gnetgccgct gcttcggcta 420
catggtctcc aagaagaagt acatctacac catcgacga 459

<210> 18607
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H7

<400> 18607

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cgaatcagga acaacaaccc agatcgaaga cctctctgtt atacatttgc atatcacaca 180
tacttctctg cttccgacat acgtgaaggg cgtgtcgaac gactggaaac tatggactac 240
cttgacaact tagatgcata ggaaccgttt acagatcacg gcgatgctat tgcttttgaa 300
tcacaagttg acaaagttta ccttgctgca cccttcaaaa ttgctatcat tgatcatgac 360

aagaatagat catttctcgt gacaaaagaa tgacttcctg atgcttgtga tcggaac 417

<210> 18608

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-H8

<400> 18608

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ggggaccccg tgccacagaa cgggcgcacg gtggcccggt tcgggttcgg gttggggcggc 120

aaggcgaagc ctgctccgaa gaaggtggcg aagacatcga cctnctctga ccggccgctg 180

tggttccccg gcgccgtggc gcccgactac ctggacggct agctggtcgg cgactacggg 240

ttcgacccgt tcgggtctcg gaagcccgtg gaggacctgc agttcgagtt ggac 294

<210> 18609

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-H9

<400> 18609

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gcgagagcaa gaagagatcc cgcgccgtcc tcttcttcac cttcaccttc acccatggcg 120

gcctgcacct tcagcggcga ctagacggcg cccttcttcg gcttcctcgg cgccgccgcc 180

gcgctcgtat tctcctgcat gggcgccgcc tactggacgg ccaagagcgg cgtcggcgctc 240

gtctccatgg gcgtcatgcg ccccgagctc gtcataaagt ccatcgtacc cgtcgtcatg 300

gcgggagtag tccgatcta cggactcatc atcgccgtca tcatcttcac gcggatcaac 360

cgcaatgcc aagcgtactt tctcttagac ggctacgcgc acctcttctc cggactc 417

<210> 18610

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-G3

<400> 18610

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ccatggaggc ggtggtcgtc gacgcgggct ctaagctgct caaggccggc atcgcgggcg 180

ccgaccaggc accccactg gtaatgccgt cgaagatgaa gctggatgtt gaggaccagg 240

agctggctga cggcgcggtg gtagaggagg tgggtgcacc tggtgtgcgc ggcttcgtca 300

aggactggga cgccatggag gacctactca actacgtcct gtacagggac attgggtggg 360

agattgggga cgagggccag attctcttca ccgaaccctt cttcacgcca aagactcttc 420

gggagcaatt ggtgcagctt atgtttgaaa 450

<210> 18611

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E8

<400> 18611

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taagggtttc attgtggcac aagagagtct taaatacatt tcaacatttt ccattgtttc 120

agcaccagtg tgttggtagg gcaggttcat gtattaaacc caaaggcacc aggcttgagc 180

gaggtattcg tgacctccag aagattgctg cagaatgcaa atcagggaaa gatccaagaa 240

catgagctaa tgaatcgctt catgagcata gttggacacc ttgttcagcg caggacacta 300

tagcttgtag agttatggcc taaaggttac atggatagtg ttggaatcaa agatgccatt 360

tatagatgaa gggagcgaag aatattatac tacagccagc aaaatgttcg cagcgaagag 420

agaatga 427

<210> 18612

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E9

<400> 18612

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 gatgtttcat ccaaataat atgctgatgg aagcatctgt ttggatatcc tacagaacca 180
 gtggagtcct atatatgatg ttgctgcaat tttaacttct atccagtccc tgcctgagtga 240
 tccaaaccca aactccccctg caaactcaga agcagcaaga ctgttcagcg agaacaagcg 300
 gtagtacaac cgcaaagtcc gtgagatcgt ggagcatagc tggacagccg actagtgcac 360
 aaggatgctc gtcgtgcccc atagggggcac aataagaaag cgtgaaaaaa aacacacgca 420
 ctcttt 426

<210> 18613
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-F1

<400> 18613

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<210> 18614
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-F10

<400> 18614

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 ggggcgctgt catacacgcc ccggggcgag atctgcttga tgggtcatag catgttctcc 120
 gaggactaca agcgccctac cctaactgaa gaagtgtttt gagatatctg gcttcataca 180
 ggtgatctcc gggagtggca atccaatggc acgatgaaga tcatggactg atagactaac 240
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 c 301

<210> 18615
 <211> 460

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-F11

 <400> 18615

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 gaggggtttca taaggggaga tcagtatgca gttgcacttg aactacttga tgagggcaag 120
 gtgttctctggg tgtgttggga tgtccaaatc ttccattaaa atcaacatac aagaacaata 180
 gcagctctttt tggggatcga atagggtccc tcttttttgc tacaattggt tgtggagcgc 240
 aagttgagggc cttagaagga tctgagccac aaaagattag tgtttgctcc accaataatc 300
 cagttgacgc ctcttcttt gaatcctttg aagcatcaca ctccaagcgt gatttaacta 360
 gtcatttgc agagaaactt ggtgtccgag ctctctctgt tagaatggat agccaagcaa 420
 aatatggtgc cctagcacgt ggtgatggtg ccatttttct 460

<210> 18616
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-F12

 <400> 18616

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 cgtccaaacc ggtggctctg tgtgcgatcc cagatggcag gcagcaggcc tcgcttagct 120
 aggcattggtg accacctttt gggcacatgg aattcctgag ttggcgatga gtattggtgc 180
 attgtacatt ttaatatgt actgtgatta ggctttactc gcggtggatg tctttcaccg 240
 ctagatggcc agaggcatat cctgccaacc aagcagagca gccattttga ttttgggtcta 300
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<210> 18617
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-F3

 <400> 18617

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 tacgagctgc ccaccacgc caccgttgc tactacctgg gcatgttcct cagaggcgcc 180
 taccacgatg cctcagccg gctgcacaac ctattcggac tgcccagcat ggtgcgcgtt 240
 tcccagtgcg actgaccca ctgcttttcc gtgacgctcg ccgacaaaat cccgtcctgc 300
 gccaacatgc tccaagcgat tcagtacgag cccctggtea tgtactacgt tctaaaacac 360
 tatacctact gaaa 374

<210> 18618
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-F4
 <400> 18618

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 agagacggaa gaagtggtt tcaggagcaa gccagcctgc cgccgccatg aggcgcacct 180
 cgaagaaatc gtcgtcgtct acggcgaccg ccagcgctgg cctactaaa gcagtttcca 240
 aggaagtaga acggattgat caatctttct atacttacgc tgataactca tctggcatga 300
 ttgaccaga aggcattgaa acactctgtt ctcacctga agttccccac actgatgtta 360
 ggattctaata gtagcatgg aaaatgggct gtgataagca aggttatattt accttggatg 420
 aatggagaac tggc 434

<210> 18619
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-020-Q1-K1-F5
 <400> 18619

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cccggccgag cgagagcgag ggagagggcat ggctgctccg aagctcgga cgctggcgct 120
 ggccgtgctc ctggcgggca ccgtgggtggc tccccggcc gcggtgcgcg cggcgatgtc 180
 gtgttccacc gtgtacagca cgctgatgcc gtgcctgccg ttcgtccaga tggcgggggc 240
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 ccccgaccgc cgcaccatct gcggctgcct caagaacgtc gccaacggcg ccaacgggag 360
 cggcacctac atcagccgcg ccgncgcgct gccagcaag tgcggcgctg ccctgccgta 420
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<210> 18620

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-F6

<400> 18620

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 tgagcgcgtc gaactagact agatgtttac aagactatgt cacacgggtg aacataacgc 120
 acggtcgatac gggccgtcag gagacgagga ccactgcata cgacttgatg ctcaactagt 180
 ggaaatagca gatgattacg gtgaccagct gttctggaca tacttgagct ttgtgcaagg 240
 tggatttgcc gcaagagaac ttcctctat 269

<210> 18621

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-F9

<400> 18621

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 gacgcactgt cagacacgcc ccggggcgag atctgcttga ggggccacac catgttctcc 120
 gggactaca agcgccctag cctcactgaa gaagtgttct cagatggctg gttccataca 180
 ggtgatatcg gggagtggca atccaatggc acgatgaaga tcatcgacag aaagaagaac 240
 atcttcaagc tgtcccaggg ggagtatgtg gcagttgagg tcctggaaag agcatacctg 300

cagtcacccc ttgtggcatc ggtctgggtc tacgggaaca gcttcgagtc gttcctcggt 360
gccgtggctg tccctgagag gcaggctctc gaggaatggg cagcagccaa cagcaaggcc 420
ggcgactttg cagagctgtg cgctgatccc aagcgagga 459

<210> 18622
<211> 402
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-G1
<400> 18622

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ggcgactggg cggccttcgc cgctgcccta cgccaggatc ccaggctgca tcttccttac 120
gccaggaggg cctcgccgca ggttgggtgg gaggcagaga tgagccgggg gcggtcgccg 180
gagccgctgg atttcttcat ctggactgtg caagatgtan ggttatggtt ggaggaaata 240
aatcttgga gctaccgcca ggcttttgaa gaaaatgggtg tcaatggaga gtatctagaa 300
agcctgtcgg tgttcaccac tgagcagatt ctccgcttta taagacgatg ccatatgaaa 360
tggggagatt ttatcacct ctgtaaagag ttgagacgca tc 402

<210> 18623
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-020-Q1-K1-G10
<400> 18623

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gctctgtgtc aggtgccatg cgagggtgaa atgggatatg caagcctaca tgggctctaa 120
ttgttctttc cttctttttt caattacatc ggttcgattc aatctgagta cctagaaatg 180
aatttgcgaa actgatgagc catcatgtgg ttttccctac ctgtcgtgac atggtctcta 240
cagaatcaga cattcctatt tacagtacat gtacttactg atcgactctg attcagatgc 300
ttgatatttt taacgctgac aaaatttacc aggtctcgtg aatccttcta agctcctggc 360
tagcattgac gaacagatag cgaaag 386

<210> 18624
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G12

 <400> 18624

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 atgccatgcg ggggtgaaat gcaatatcca agcctacatg gtctctaata gtcctatcct 120
 tcattttctaa atcacataca ggcaagtcaa tctgattacc tagcaatgaa tttccaaaa 179

<210> 18625
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-G2

 <400> 18625

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 tgtttgattg gatttgatgc gatttggtgc gcttcgtcat ctggtcgttg ggaggattgg 120
 ttctgccaat cggttcccaa cggactcgtt cccttgaagc tacataattc cgttgtatcc 180
 tgggcccggct ctttatcgtg tgccttcaat tattccccat gaacaggggc accgcgcggc 240
 tcttacatac atggctctgt tagaatgttg ttttgtgcta ttgtttattc ttgtctttca 300
 catgatggct gtttagattt tgaaatgatg cttgtgataa cagtgcagaa tccttacata 360
 gttacagatc tgtgagattg ttgcaagaag atcgcatcat tcaaagcaca tctaagctga 420
 cctgtcttca tttca 435

<210> 18626
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-E7

 <400> 18626

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actaaaggca caagccgaca tatggcggct cagcctctcc tacctcacgc cctgtcact 120
gaggtgcgcc gtggagcttg gcatccccac ggcatctac cgccatggcg gggctgcctc 180
agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgt tctccgccg 240
cctgctgcgg ctctcgccg cgtcggggcg gttcacctc gacaagcaga gcacggagga 300
ggagcggtag cgcatcagcc cccgtgtcct acctcctggt ggacggcatc cctcacgagg 360
accacatgaa ccacaccgct ctggtgctca cctgcacctc gacgcgtac atcgaggcgg 420
ggatagggct 430

<210> 18627

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C6

<400> 18627

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tacttcttac atatttcata tgggtggcaga aaagaaagcc tattgtgcaa ccagtaccca 120
cacatggctc aacaagagat ccagaacctg ataatgcttc aggaataaaa aaaagttatg 180
gctacaacct gaatataact gagaatcggc agttcacata caaagagctg gagaagttca 240
ctaataatth caagaagttc ataggacaag gaggttttgg gcccgctctac tatggccgtt 300
tggaagatga cactgagggt gctgtcaaga tgcgttctga atcatcgtca catgggcttg 360
atgaatthtt agctgagggt cagagcttga caaaggtgca tcacaggaat ctagtgtcta 420
tgat 424

<210> 18628

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C7

<400> 18628

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gagcctgaca gatatgtgat catgggcagg catcgtgatg cttggacatt tggagcactt 120

gatcctaaca gtggaacagc agccatgctt gagatcgcg cgaggctgtc caagctacaa 180
 gcgaaagggt ggaggcctag aagaacaata atcctatgca gttgggacgc agaagagttt 240
 gccctgatag ggtctactga atgggccgag gagaacatgg acactctagc ttcaagagct 300
 atagcttacc tgaacgtgga catatcactg tttggctctg ggggtcttat gccccgtgcg 360
 acccctcaac ttgatgaatt gatcaaagaa gcaagtaaaa tgggtaccaga tcctgatgaa 420
 ccatctcaaa ccttgtatga caccatgatg cgccat 456

<210> 18629
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-C8

<400> 18629
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 cattcgagtc cacgaggacg aggagcagca gcagaagaaa agggcaagga acatcctccg 120
 ggggccgccc ccatggccgg ttgctgctg ttcctccggt ggccgtcggc ctggccgtcg 180
 cgcattgggtt acggttcctt cgtcaaccgc gcggccgaca acgccgcccc gccgtcaacg 240
 gtaacggccg tggccggaaa ggaccgccc cgttcgcgg tgaaccgcct ggcgtgaac 300
 tctaaccggt tccggttggt cttggacacg gcggcgaca gggaggaccg cagggccggg 360
 ggcggcgccc gcgccatctt cgtggacgta gacgccatcc ttttagagca catcctgtgg 420
 ctgcct 427

<210> 18630
 <211> 126
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-D1

<400> 18630
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 gaggcgatgg actgacgact gtacacgagt acggatattg cttaggagtc tatttggaaca 120
 gacata 126

<210> 18631
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-D11

 <400> 18631

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 cacgctcaag ctggccgttc aactaacaca ggaggacca gacaagccac caactgatcg 120
 acgaccatct aacacgcgtg atacaattat ctattcttat gcaagcaaca ggctgcataa 180
 cctacagaac cagtgcagct ctataaataa gaccgctgga ctttgaacac ttatccatgc 240
 actaccatat tcaccaaacc caaacctacc agcgaccacg accgctacaa gacagtcata 300
 cgtgcacata caggatcacc agccaagcgc tctacctatc cctgatcagc gaccacacc 360
 cgacgactac ataccgcagc tcagccttca agacaggca 399

<210> 18632
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-020-Q1-K1-D12

 <400> 18632

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 ggctgatac cagtggccaa cggcagcgag gagatggagg tgctcgtgac cgtcgacgtg 120
 ctgcgccggg ccaaggcgga cgtcgtggtg gcgtcggccg aggaggtcgt cgtcgcgcgc 180
 cacggcacca ggatcgtcgc cgacgcgcgg ctgcaggacg ccgtcggcca gcagttcgac 240
 ctcatcgtcg taccgggtgg catgccgggc gtgaagacga cgctggcaga caaggtggag 300
 ctcatggcgc tgctgaagga gcaggcggcg gcgggcaagg cgtacggcgc catctgcgcc 360
 gtcacggcgc atgtgctgga gccgcacggt ctcatccggg gcagca 406

<210> 18633
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D3

<400> 18633

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cctgactttg caggaggcag agaagcatct ctcagacatg gttaactcga aatctctagt 120
ggcaaagatc gacaggccga tgggagttgt cagcttccgg acgaccata acagcaatgg 180
cacactgaac tcatgggcca cgagccttga gaagcttctg gacctcgttg agaagagctg 240
ccacgagata cataaagaga ccatgatcca caaga 275

<210> 18634

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D5

<400> 18634

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tttgcctgac tttgcaggag gcaggtaagc atctctcaga cgtgggttaac tcgaaatctc 120
tagtggcaaa gatcgacagg ccgatgggac ttgtcagctt acggacgacc caaaacagca 180
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gctgccacga gatacataaa gagaccatga tccacaagac ggcgttaaaa gtttaactct 300
tttggcttag gttttgaaac ccgtgctggg catgaattac cgtaacagga aggttttttt 360
gttggtgata ggcacggcca gtttccccgc aaatttgctt tgactcgtg aatgtttttc 420
gg 422

<210> 18635

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D6

<400> 18635

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ggcggctgaa cagcagaaga cgccgagcgg ggtggcggct ggtggcgggg cgctgctggc 120

ttgccgttcg gcggatcacc tgcgcaggtg gggtcgcgct ggcgccggct cctgacgcga 180
cggagggggcg agcgctccct gtcgagctg 209

<210> 18636
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D7

<400> 18636

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ggctcgtctg gccgcagact agtatccgca ccagagagga gacacctacg actccgacct 120
gctcttgcat atagattggg cagagagtga cagagccccc cccccctaaa gggtcgccaa 180
aaggaaatth ttttttaaht ccagctctta agcctaacgg tctttgatcc cggagagcag 240
ccgccagccc aactaatcct tgcctgctggc gcgccggggc tccgattgcy ctccagatct 300
gaggcacctg ctcggtggat tccaggaatc cgagcaccaa ctagacagga gagttctcag 360
ggtaaaggaa gaggctgaga gcgcgttgga gatttggact ataagagcga gcgagcgagc 420
tgggtgcctt gctgccttg 439

<210> 18637
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D8

<400> 18637

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aaactgaagt atattggtgg gactgacatc agcttcttga aggaagacct atccacagca 120
tgtgccgcgg tggtagtctt caatgtcgat actttagaag ttgtccatga agagttcaat 180
gttgccgac tgcaagtgcc atatattcct ggttttcttg cattcagaga ggctccagtt 240
cttcttgga ctttggaata ggtgaagatc aatgcacctc atttctgccc tcagttgctc 300
atggttgatg gaaatggatt gctccatccg cgaggttttg gtttagcttg tcatctcggc 360
gttcttgca acatttctac tggtggagtt ggaaaaaatc tacatcacgt agatggcctt 420

aaccaatc

428

<210> 18638

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-D9

<400> 18638

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tctttcaaaa ataattcaca ctctatat tt cctaacacaa ctcatcacia taccattcca 180

tactaccatt ttaacaccac tccttatact ccttaacaat atcagctcat gaatacaact 240

atatcatact ctcacactaa atactaaaat ctataacgcc gtctactcat tcaccc 296

<210> 18639

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E10

<400> 18639

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gagttggcag ttacacaag atgagccgca acaagccatc aactgttcta tttgtcccta 120

ggatgtttca tccaaatata tatgctgctg gctgcatctg tctggatatc ctacagaacg 180

caatgtagtt ctatatatga tgctgctgca attgtaactt atatccagtg cctgctaagc 240

gatccaaacc cactctccgc tgcagactca gaatcagcaa gagggttcat cgataacatg 300

ctctagtatc aaccgtaaag tccgtgaaat cttt 334

<210> 18640

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E11

<400> 18640

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 tacacaatat gaccccaact ctccatcacc tgctctacta gtcactacaa tgtactatcc 120
 acatatatat gctcatacat acatctatcc gcatatccta cacatccagt ggagtcctat 180
 atatgatgtt gctacacttc taacttctat ccacaccctg ctaagcgatc caaacccaaa 240
 ctccacttca aactcataat cagccagact gttcat 276

<210> 18641

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E2

<400> 18641

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 tcaactatagt agccgacact aacatcaacc ttctacaacg tccaccctat ccaaaccatga 120
 ccacatccaa aacctcaaca tcaatactat cataactctac catgcagacc taaaactcac 180
 caatatcaaa actcaaccta tactaactta taacaatacc agatgattaa cttcttgatt 240
 aaactctcac actggatcac aacaattctc caacagacct acctcatcat ttataact 298

<210> 18642

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-E3

<400> 18642

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 ctttaacttg tactaacatt ggaactgacc ctgcggcagt tcatctcaca accgcttgag 120
 cgactcctcg cttcaactgt gatgatcaat gacaatcata gtgcagcaga ccatcggaac 180
 catgatacac gacgtacagt acatgctaga agaca 215

<210> 18643

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C5

<400> 18643

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aagaggaaat tccttgaagc ggatggaggc aaatacggat tgccgcgtgc taataagagg 120
tcgtggcagc ataaaagatc cagcacggga ggaaatgatg cgagggaagc caggatatga 180
gcatatgaat gaacctctcc atatattggt tgaggcagag ctacctgttg acatcattga 240
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ccaggacttc ttcaagaagc agcagctgcg ggagctcgcg atgcttaatg gcaccctgcg 360
tgaggaaggg atgcagaggt tcggttcagc gtaccctttc cacaacagcc ttggaatgaa 420
gagag 425

<210> 18644

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-E4

<400> 18644

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tatggcaatt ggccaaggaa ggaaaagcca agaaaaaatt ccaatcttcg ggaagaccct 120
taccgggaag accattaccc ttgaagtgga aagcaacgac accgtcgaca acgttaaggg 180
ccaaattcaa gaccagggaa ggattcccc agattaaccg aggctggata tcgcttgcca 240
agcagctgga ggatggacgc acgctggctg actacaacat ccaaaggag tcaactcttc 300
atgtgtcct caggcttagg ggtggaacca tgatcaaggc caaaactctc actgggaaag 360
agatcgagat cgacattgaa cccactgact cgattgacag gatcaaggag cgtgttgaag 420
agaaag 426

<210> 18645

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B11

<400> 18645

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cagctctagg ctactgcgag tgctagcagt atggcttccg ctgcgcgctt actggtggcc 120
gtggctcgtgg tgtgcgcact cctggccagc aacaactgcc acgcggcacg ccgcttggcc 180
gacacggccg cggttccgc tgctgctgcc gtcgtccctg gcctaccgc cgtgccgacc 240
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gtcacctgac cccagatgac gctgccgacc atgccagcgg ctccaaggt gaccgtgtcg 360
ctgccgcaa tgcccgccat cccgtccgtg ctgccaagc tgacgctgcc accgatgccc 420
gctgtcgttc catccgt 437

<210> 18646

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B12

<400> 18646

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taagggtatc atgttcttgg aattcttcac acgttatggt cggcagtgtt tgattattgc 120
tcatgaagat cataaagcac acgtattgga ctttcggttg cgcaaatttg tttctgagaa 180
gcgaaaatta ttatctcgtg aagcttctgt cttcttacgt cctaattgat cgttactact 240
tacaccttca tctaaaagca cttgccgttt ctgggacgct aaaaaattca gtttttatgg 300
agtcattgac aattctgctg gaggagatgt gctgggtatc gcttgtttga tggggctctaa 360
aacaaagttt gtgattggac aatattatgc attaacaata ttgcatcttg ataatgcatt 420
atatcaaaa 429

<210> 18647

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B2

<400> 18647

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accagaaatg ctaaagcatt tgcactctta tcttacgaag gcattgccaa aagaattaag 120

aggataacag ccctgactgc tggatgtgcc acccaagcta tggaattggc gtcactatc 180

gattctcata tcaataaaac atctcaattg gaggggaactt tgattgaaaa gaaa 234

<210> 18648

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B4

<400> 18648

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gaacatataa accacaggcc tgcaatctgc atatgctgct gggttggctc caagagtttg 120

caccatagtg aaaggtattg cagatttgaa caaggataac acgaccgtct taacgccgaa 180

actggatgaa agcgcacata gagaaagatt tgctaattca tactacaagc ttctgtacaa 240

gatcattcaa tatccatgaa ctttatctgt caatttatac tgtcaactct cctctatctg 300

gatatggaag ctgcaaatga ataaactggc cttcgctggg actaatctta actgcttgat 360

atttatatat aacatcacga tggtttataaa agtgagtaca tgaatatcct cagattttca 420

gcac 424

<210> 18649

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B5

<400> 18649

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caggtgacat agagaccaca ggccctcggag ctgcatatgc tgctgggttg gctgcaggag 120

tttggaccaaa ggagaaggat tttgcagggtt tgcacaagga gaacacgaca gtcttccgctc 180

cgaaactgga tgaggcgcac agggaaaaaga gggcggattc atggtacaag gcggattcaa 240

gatcattcga tctggctgat ctttctctgt aaatttatcc tgccagcgct actctatctg 300
gttttggaag ctgcaaatga ataaatcggt cttcgctggg actaatctta actgcttggt 360
atgtatatat aacatcacga tgtttataaa agtgggtacat gaatatcctt agattttc 418

<210> 18650

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B6

<400> 18650

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tgccaaccgc gccgagccca acctcggctc tccatggaag ggcgcgggtcc acgccgaccc 120
cgacctcggc tctccaggga aggggtgcggc ccacgccgac cccgacccgg ccaccacgtg 180
gctctacatg gaaggcgtc agatccactc tctcgatcca accaccgagc gcgccccaac 240
ctagtcgctc catggaaggg cgtgactcac gcacgaccca gacccgacta ccacatcaac 300
tgtccacggc gacatggata ggcccacacc ggtagaaag tcttacacat caacgctgga 360
cctgctcatc tacacggagg gcgcatagca tgagtcgcaa cagccgaccg catcagacgc 420
cggaagctct ca 432

<210> 18651

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B8

<400> 18651

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catactcagg tccagtccctg cagtctggct cgaataatag ttogatgact gaaaggggcc 120
acattattga aagggatgca ggagttcaat ctgtatctga taaacaaaag aatggtacaa 180
gaagagccaa taatcttagt ggtcctttgt cacttccaac togtgcttct gcaaatagtc 240
tttcaagagc caataatctt agtggccctc tgtcacttcc aactcgtgct tctgcaaata 300
gtctttctgc tctattcga tcttctgcag gttatgtagg ctctttgggt gataaaccta 360

agcgactat ggtggaaatt aaaggccgct tctcagtac atctgagaat gtggaccttg 420
c 421

<210> 18652
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B9

<400> 18652

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ctcaggtggc acgggaattt gtgtttccct gcgtatgaca gcaccatgtt gttcctgaga 120
ttacctccct tcagaactcc gaaagtcact tcaccgtacc ttccagtttc aagcgccgga 180
taagagagta ctgagaggcg acaagaagat cactatacac cactgtccgg tctaggctat 240
cttgagaaag gctgcttggg gggctaaatg acgaaagaaa atatccagga ctgggtggac 300
attcaaacat caactgatct atccagtatc caggttataa gtgtgttgta atgcttcaat 360
gcgtatcatt gtccaaaga 379

<210> 18653
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C1

<400> 18653

cttgtttctg gttcttttat gatgattgac gcaacaacaa aaatgcactt catcgattat 60
ggcggctacc tcgactgaca taatgcctac ctttgggtat gcttcttctt ttctttaatc 120
tttcgcggtt ctatgtacta atggatcatc tgctaaattc acatgtgcac ctttctattg 180
gcacctatac ttttgtacca tttttctgga ttaatctact attaaaaatg ccaaaatata 240
taacgatcca aaaacgtgat aggttttttt cggtagctag ctttgttaat atgctggaac 300
caaataattt taagaaac 318

<210> 18654
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C11

<400> 18654

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aagtcttttg ttagtgcaat ggagagcaga ggtagtggtt actatgagga gaagaagggtg 120
cttttgattt tcagagatgt ctgcaatgct gcctttgcta tgcattggaca atcaccccca 180
attgcacata gggatctgaa agctgaaaat gttcttcttg gttgtgacgg tgtatggaaa 240
atatgtgatt ttggaagcac atcaactaat cacaaatgct ttaacaaacc agaagagatg 300
ggcattgagg aagatgtcat caggaagcat acaaccccag cctacaggcc cccagagatg 360
tgggatctct acagaagaga agttattagc gaaaaagttg acatttgggc ttttgggtgc 420
cttctatatg gaatatgcta cttcaagtct gcatttgat 459

<210> 18655

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C12

<400> 18655

cggacgcgtg ggcgacgcg tggggcgacg cgtgggctcc gcgtttacac ccgcgccac 60
tgctgctttg gcgccgtagc tagcaaaggc gatatccatg gcgaccctg cacggatcga 120
gctggacaag ctgagcgtgg agcagctcaa ggggctcaag gagcagacgg atctggaggt 180
caacctctc caggacagcc tcaccaagat ccgcaccgtc gtcacccgac tcgagaacgc 240
cttcgtcgcg ctccaggacc tatccctcgg cccccaaggg aagaagatgc tcgtgccgct 300
cactgcgtcc ctctacgttc ccggttcact ggacgacgcg gagaagggtcc tcgtcgatgt 360
cggcaccggt tacttcatcg agaaaaccat ggctcatggg aaagaatact gtgaaaggaa 420
aaattaatta ttgaagtcaa attttgatga 450

<210> 18656

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C2

<400> 18656

cgcatcgatg aagaattgta tgtgggtcaag aataacaatg acttggaaca aattcaaagg 60
gagcctgcag gacagttgat aaatgaaatt gataatgcaa gggttttattt gtcaaattgag 120
gtaaatgaag gtgggtcacag tcccataaat tctgatgatg aggggtatata tgtgcatagg 180
tctctcgggg tagattatgt gaggtttgac gatgctacca tgagacaccc aattatggac 240
gttggaacag tttttaccga tgtgaagcag ttcagatcgg cactaaagaa tttcatctca 300
ctactggaat gcttgctggt ttgggtggtt cagtaattag gccacaaggt gaacgcctgc 360
tatgttgaga tgaagtagga acgcctgctg ttttgctggt ttgtttgcct aagctagctg 420
cttaaatca 429

<210> 18657

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-C3

<400> 18657

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cagatatgtg atcataggca accatcgtga tgcttggaca tttggagcag ttgacccctaa 120
cagtggaaaca gcagccatgc ttgagatcgc ggagaggctg tccaagctac aagcgaaagg 180
gtggaggcct agaagaacaa taatcctatg cagttgggac gcagaagagt ttgccctgat 240
agggtctact gaatgggccg aggagaacat ggacactcta gcttcaagag ctatagctta 300
cctgaacgtg gacatatcag tgttttggtcc tgggggtctt atgccccgtg cgaccctca 360
acttgatgaa ttgatcaaag aagcaagtaa aatgggtacca gatcctgatg aaccatctca 420
naccttgat gacaccatga tgcgccatc 449

<210> 18658

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-C4

<400> 18658

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caacttatac tacccttagt cctcagcctg taatggctgg gaagttcagt cctgttggtt 120
atgttcaacc aggtcctcag gatgcaatgc atggaacaac cggtgggttt caaggatggc 180
cttgcccttt gttattgaat tcgtaccaag ctagcatgca gaaattccaa ggcaaccccc 240
cggtgtatth agctcctcca gtcattggca ctgggaacct tccattgggt gtaccaagcc 300
ctgcatcact tgtgcagccg ttcgaggcca ttcattccat aatgggcctt gctgcaagca 360
gcatgggtcc aggaaaatac atgtaaactt gtcgtacca tgacaatctt cttttgttgg 420
aagaaatcct gcg 433

<210> 18659

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B10

<400> 18659

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aggcgtctaa ggaccaggcc ggctgtgcc gctggaacta cgcgttcagg caggcggcgc 120
agcagcagca gcagcagcgc gccaggaggc cagcagcgc gagcggctca gtcggccccg 180
gcagcggcag cggcagcgcg cagcgcgcgc ctgcttctgc tccctcgggc tgcgcgcggc 240
cggcgaggag gagagccagg cagcagcagg aggaggagct ccggacggtc atgtacctca 300
gcaactgggg tccaacaac tagctacgaa ctaccagtag ctggtgatcg agcaggcgaa 360
gcgaagctgg gcgggcaaca acctgagatg actccgaggg cccgtgtcaa gcaaccttgc 420
ctctagctag ctatgctagt aggcgct 447

<210> 18660

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H7

<400> 18660

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 tgtgggggtct ttgacaccat ggctaccgtg caaatgttct gggtcgtgat gttataaaac 120
 gtgacgaggt tgcgaacgac actggtagag gctggctaca actactagat cgtgcccattg 180
 aacttcggca ccgacaagca caacatcacc ctgcatctag atctcgaccc ggatcgtaat 240
 gttccagata tgcattgatta tgactggggc ctttttgaat cactatcaat ttgaacggac 300
 gctgattgca taaacaagcc caagcttatt atggaacgaa acct 344

<210> 18661
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-H8
 <400> 18661

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 tccgtgcttc tctatacagc gactatcttg aagctgcaga cagcctggg tggactgctg 120
 gacctaactt ctacaccaca gaagtcctcc gcaagtttgc caggtcacag ctgcactaca 180
 tccttggtgcaa gaaccatttg aagatgagct acgttggtggg ttccggaaac aagtaccgga 240
 agcgccctca tcacagaggc gcgtcgatac ctcaaacgg cgtcaagtat ggggtgcaaag 300
 gaggttataa gtggaggggc caaaaaaggc aaaccctaac atccttgctg gagcaatggt 360
 ggctggcccc gaca 374

<210> 18662
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-H9
 <400> 18662

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 gccgccgggc cgcgtacct ccgtcctct cttcgccctt gccggcgtcg aggccgaagc 120
 gaaggcgagc atgcatcacg accccaaccc cttcgacgag ggcagcgccg aggacaaccc 180
 cttctcaaat ggaggagccg gaggcggcaa gcagcagtag ggcttccggc cgactgagcc 240

cgtcgggttc ggcggcgcta gcaggggcga cgccgtcggt gacgtccgc tcgagaccat 300
 gggggactct cggagcaagg tgaaggagct ctcgtcgtgg gaatcagatc tgaagcggcg 360
 agaggcggat atcaagagga aggaagaggc gctgaagaat gctggcgtgc caatggagga 420
 gaagaact 428

<210> 18663
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A1

<400> 18663

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 aaactgggtca cattccctcc ttgaaggaag gaaactcaca ggagacgata tttaatccac 120
 cttggcggca tgagccagtc gcaatagggt caaggtttgg agaagcattt caagagccag 180
 cttcatttct tgccatacga cctctgtttg aggatgagag atacatggta acatataacc 240
 caacaaagga taaagtatat gctttgctta aggaccaggc aaaatcagac gacattatca 300
 aaagctgttt ccatg 315

<210> 18664
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A10

<400> 18664

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 gtccttgagg aggttgtacg agaaagggtc cctaaattgg ccaaacatat ggaattcttg 120
 ggagttcaag tgggatggat aactggacca tggtttcttt caattttcat caatatgctt 180
 ccatgggaaa gtgtacttcg catttgggat gtcacctttt ttgaaggaaa tcgcataatg 240
 ttgttcagga cgacacttgc tttgctggat ttatatgggc ctgcactagt gaccacaaaa 300
 gatgccggag atgcaattac actactgcag tctcttgctg gatctacatt tgacagcagc 360
 cagcttgtat tgacagcttg tatgggcttt caatcagtta gagaaatggg attgcaagag 420

ttaaggaaaa agtacaggcc tgaaatttta act 453

<210> 18665
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-A11

<400> 18665

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ctcttataaaa ctcagctgat gaccaagcag cagcccaaag agccagggac ttccacattg 120
gctggtttgt tgatccattg ataaacggac actatccaca gataatgcaa gatctcgtga 180
aggagaggct gccaggttc actcctgagc aggctaaact ggtgaagggc tcggcagact 240
acatcggtat caacgagtac acatncagct acatgaaggg gcagaagctg gtccagctgg 300
cgcccagtag ctactctgcc gattggcagg ttcaatatgt ttttgacgc aatggcaaac 360
cgattggacc acaggcgaat tctaagtggc tctacatcgc cccgacggng atgtacgggt 420
gcgtgaacta cctcaaggag aagtatggga atccaacgat ctacataacg gag 473

<210> 18666
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A12

<400> 18666

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ggtgatacca agcagcacgc gggagggctct atgactttca cattgcctgc gaagttcatc 120
cattgataaa cggacactat ccacagatca tgcatagatc tcaatgaatc gatcaggctc 180
gcctcagcat tcaactacctg aacatgctaa actggagaat cgctccccta gactacatat 240
gctatcaacg agtacacatc catctacatg aatgatcaaa aactgtatca cctgactccc 300
aataactact ctggccattg acacgatcac tatactgctg tacacaattg cataccatt 360
ggaccacatg cgaattctaa gttgctcttc attgccccta caat 404

<210> 18667
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A2

<400> 18667

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gacgacgtgg tccagagcgg cgcgggcggc ggcgagttcg ccgccaagga ctacacggac 120
ccgcccgcgg cgccgctggt ggacgcggcg gagctgggtt cgtggtcgct gtaccgcgcg 180
gtgatcgcg agttcatcgc gacgctgctg ttcctgtacg tgacgggtggc gacgggtgatc 240
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ggcgtggggc tgctgggcat cgcgtgggcc ttcggcggca tgatcttcgt gctgggtctac 360
tgcaccgacg gcatctcggg gggccacatc aaccggccg tcaccttcgg cctcttcctg 420
gcgcgcaagg t 431

<210> 18668
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A3

<400> 18668

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actccttcat caacgacatc ttcgagaagc tcgccgcgga ggccgccaag ctgccccggt 120
acaacaagaa gcccaccatc acctcccgcg agatccagac ctccgaccgc ctgctcctac 180
ccggcgagct cgccaagcac gccgtctcgg aggggtaccaa ggccgtcacc aagctcacct 240
cgtcttagcc cccttgtagt aggcgtcgtt gctgtctgct tctcaagcaa gcactgtgat 300
g 301

<210> 18669
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A4

<400> 18669

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gctggtcgcc ggggctgccg ggcgcggcgc gcagcagggc gtgtggagca tcatcaccgc 120
gcccattgttc cagagcatgc tgagccaccg cggcgacagc gggtgccagg gcgccttcta 180
cacctacgac gccttcatcg aggcgcgcag caagtcccc ggcttcggca ccaccggcga 240
cgagcagacg cgcaggcggg agctcgccgc cttcttcggc cagacgtccc acgaaaccac 300
cggtggatgg gcgactgctc cggatggacc gtttgcttgg ggatactgcc gggatgaagga 360
acagaaacag acggacccac cctactatgg acgaggacc atacagctaa ctcataagta 420
caactacagg ctgc 434

<210> 18670

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-020-Q1-K1-A5

<400> 18670

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gcaggacaac atcgacaagc cgttcaatat catctgcagc ccaagttcga tgcaggagtt 120
cggcatgggg tgaagatggc tgctattttg taagtgaagt ggtggatgaa aattcaagtt 180
attgtagaag acaacacatt tctttgcata ttacatcctg ctatgatgtt ctgaactatg 240
atgggttcaa cgggtgccat ttttctctta gagctattgt tgacatggaa gaaatgggtg 300
cagcaccagc ttagtatgga caacaactga aatctcctac agaagttggt tctaattgtc 360
tattgagctc cattgngttt tggcctaccg caatcttgt 399

<210> 18671

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-A6

<400> 18671

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 agactcgaga gtcaacatgc ctaaaacgat gtatgatcat gagtgcgtta tatattatat 120
 attggctctg gttacctgta ctatttagtg catcatttgg tacttatttt aatagtccaa 180
 cggaacatag cgtcactatg tagccattct gaggatagtg cgatactatt agacacttag 240
 ctatcatagg ttaccagttc agctcatggg agcgacattt ggtgacgcat tacagttaag 300
 cttgctgcat aacgtacgca tgtcctatgt gatctcaact atacgatcaa ctcaccatat 360
 gtgaagacac accaacttat atccaa 386

<210> 18672
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-020-Q1-K1-A8
 <400> 18672

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 aagatctgct tgcagatcct gatagcaaag agtggctatc catatcgact gaactatgtg 120
 gaggtacaca tatcaciaaac acaagagatg ctaaagcatt tgcactctta tctgaggagg 180
 gtattgcaaa aggagttacg aggataacag ccgtgactgc tggatgtgcc acccaggcta 240
 tggagttggc gtcactctatc gattctgata tcaataaagc atctcagttg gaaggagctt 300
 tgttggaataa gaaaattgct tccatcaaga gtgggctgga tgcagctgct atccctgctg 360
 cgagaaaagc tgatttgaga ggcaagggtt caaagttaga ggacgaactt aggaagg 417

<210> 18673
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-020-Q1-K1-A9
 <400> 18673

gtctatctca gcttgctgcy ctgcactacc ctgccctgcc atcatatcgt acgtgagccc 60
 ggccgagcga gagcgaggga gaggcattgg tgctccgaag ctgcgcagcg tggcgctggc 120

cgtgctcctg gcggcgaccg tgggtggctcc cccggcccg gtgcgcgcgg cgatgtcgtg 180
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 gccgccccag ccgtgctgcg gcggcatccg cagcctgctg cagcaggcca acaacacccc 300
 cgaccgccgc accatctgcg gctgcctcaa gaacgtcgcc aacggcgcca acgggagcgg 360
 cacctacatc agccgcgccg ncgcgtgcc cagcaagtgc ggggtcgccc tgccgtacaa 420
 gatcagcacc aacgttaact gcaacacgat taattaaat 459

<210> 18674
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B1

<400> 18674

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 ttctgcaacc aaaccttacc cgacaaacaa ggattagctt aaatgatcaa cccttgtagg 180
 gcttgttcgg ttacaacaat tcagaagcgg attggagggg attaaatcct tttctagtta 240
 aaaatgacta gaagaggatt taaacctcac caatcccctt atggattggg gtaaccgaat 300
 atgtccgtag ggggtagcac tgaagcagcc aggataccgt gctcgctggg gatcactgca 360
 accacataat cttctttggg cgtgtactct tttcaaaaag cttgtatctt tggaaatttc 420
 tttacgggcc tc 432

<210> 18675
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H6

<400> 18675

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 cttccggcga cggaggagag atccggaatc acctggacta agcagttgaa cgcgccgctg 180

gaagaggteg accccgagat tgctgacatc atcgagcacg agaaggcccg ccaatggaac 240
 ggtctggagc tcatcccgtc ggagaatttc acgtcggtgt cagtgatgca ggcagtgggt 300
 tccgtcatga ccaacaagta cagcgagggg taccctggcg caagatacta cgggggaaat 360
 gagtttattg atatggcaga gtccttgtgt cagaaacgtg ctttggaggc 410

<210> 18676
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G11

<400> 18676

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 gaagcttcca agtcgctacc ttgtttcccc accagagata gatagaacat ctggggagta 180
 cttggtgaag aatggcatcc gcacctttgc ttgcagtgag acagtgaaat ttggccatgt 240
 cacatttttc tggaacggca accgctcggg atactttgat gaaactaagg aagagtatgt 300
 agaagttcct agtgacagtg gtattacatt caatgttgca cccaagatga aggcgcttca 360
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 cctgccaaat ggtg 434

<210> 18677
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G12

<400> 18677

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 gaccaaagaa gcaatggaaa aggaatcatc tgccacatac gagccaaaaa ggaacagtga 180
 aatatgggtt tttgagagtt caaatgagat ttcaacggat cttgctgagt atatctcaca 240
 agtttcacaa atttctgtca aagaaagggg atactttgcc atcgcttat atggaggtcc 300

cctagtcact ttttagggga aactttgcga agctacatac aacaatacac tggattggtc 360
 caaatggaac atcttctggt ctgatgaacg tgctgtggca taaaaccatg cagatagtaa 420
 ctataggtt 429

<210> 18678
 <211> 140
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-G2
 <400> 18678

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 cagggtccac ggccttgtcc ttaagcggag gcccaatgcg ctgaattact gttcttcgta 120
 actagacgca gcatacgcac 140

<210> 18679
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-G3
 <400> 18679

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 tggctcttgag tccaatggag tccgctgcgg tggaaggata ctggtatccg accgggcaca 180
 tctgctgttt gatctgcacc aggctgtgga tggacttagg gaagcagagc ttgaaaattc 240
 atttataggg acaactaaga gaggcattgg tccttgttac tccagcaagg taactcgaaa 300
 tggactgcgg gtttgtgatt tacgacacat ggacactttt ggggataagc ttgacatctt 360
 attcaaagac gctgcttcga gatttcaagg ctttcagtac agcaaaagct tgctcaagga 420
 agaagttgag agatacaaga agtttgctga tcgcttgag 460

<210> 18680
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G4

<400> 18680

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ggagaaattg atgggtcttga gtccaatgga gtccgctgcg gtggaaggat actggtatcc 180
gaccgggcac atctgctgtt tgatctgcac cacgctgtgg atggacttat ggaagcagag 240
cttgaaaatt catttatagg gacaactaag agaggcattg gtccttgta ctccagcaag 300
gtaactcgaa atggactgcg ggtttgtgat tcacgacaca tggacacttt tggggataag 360
cttgacatct tattcaaaga cgctgcttcg agatttcaag gctttcagta cagcacaagc 420
ttgctcaacg aagaggttga gagattcaag aagtttgctg atcgcttggg acc 473

<210> 18681

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G5

<400> 18681

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ggtaagcgtg gatgaagaat gcagctccca agagtcttac gtatggcgta gagtaacggg 120
gatgatttgg ccgactcaaa ttctcgactt tcagtgattc attaataacc tgtcgatact 180
gatgcatcaa cgtatattca tactgcttga acattttatt ctttatctag ctatgtgac 240
aactatgttt agtttttgtt tgactaccag tcactcttaa agcagttttt gtaggatttc 300
aaggatgatg ggacagcttc ttagctgtca cttgtaacat ttaatatcat gcttgcctta 360
caaaataatt tagaatc 377

<210> 18682

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G7

<400> 18682

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 gcagcaggat ctttttctga atggaggggc aagcttacta gggactttgg ttttgctatt 180
 gatttgataa gcatgttgat gtcatttggt cattactcga tgatcttttg gcttcgtggg 240
 atggcgtttc atctggttga tgcagttctc ttatggaact tgcgtgctct tatagtttcc 300
 tttttgaaga ggattaaaac ttacatcaaa ttacggaagg cacttagttc actcgacgga 360
 gcacttcag atgctactta tgatgaaatt tgtgcatatg atgatgagtg tgccatctgc 420
 aggggaccga tgggtcgagc taaaaagttg tcc 453

<210> 18683
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-019-Q1-K1-G8
 <400> 18683

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 gttatcatta ccagattttg cttatccctt cacagtggaa acggacgcca gtgcagtcgg 180
 tattggagct gtattgatgc agcatgggca cccagttgca ttcctcagca aggctttggg 240
 ccctaagacc cgtggtctct ccacttatga aaaggaatac atggcgatta ttgtcgagtc 300
 ccagcagtga cgttcctacc tncaacatgg cgaattcaca atcctnacgg accacaaaag 360
 gcctactgaa ctgaacgagc agcgccctgca cagccctgg cacacataat ctttaccaaa 420
 cttttgggct t 431

<210> 18684
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-G9
 <400> 18684

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tagctcagac tcataactct cactctctca aatacacttc tatccctcga gaagcctatc 120
aactacttta gcatcatgaa ccacgaatag atcccatttc gtgatgctaa cacttactac 180
gtcttaaagt cctacagttt attaactgac catgacaaag cttatggaca tctgaaagat 240
ctgcctaaaa taatcttata tatctacaat tcttacattc ac 282

<210> 18685
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H1

<400> 18685

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aggagggcct agccgcaggt tgggtgggag gcagagatga gccggggggcc gtcgccggag 180
ccgctggatt tcttcactctg gactgtgcag gatgtatggt tatggctgga ggaaataaat 240
cttgaagct accgccaggc ttttgaagaa aatggtggcc atggagagta tctagaaagc 300
ctgtcgggtgt tcaccactga gcagattcta cgctttataa gacgatgcca tatgaaatgg 360
ggagatttta tcaccctctg taaagagttg agacgcatca aagttgcctg cctgaaaggg 420
gag 423

<210> 18686
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H10

<400> 18686

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atcgaatgcg atcatgcac acgaccccaa ccccttcgac gaaggcagcg cccatgacaa 180
ccccttctca aatggaggag ccggaggctg caagcatcag tacggcttcc ggccgactga 240
gcccgtcagg ttcggcggcg ctagcatggg cgacgccgtc aatgacgtcc cgctcgagac 300

catggcggac tctcgggaaca aggtgaagga gctctcatcg tgagaatcag atctgaatca 360
gcaagaggcg gatatcacga ggaggg 386

<210> 18687
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H12

<400> 18687

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cggtcgccac cgaccacgac ctcatcgta atgccaaacta gatagcctca cgcgccgaca 180
ttccaccacg tcaactgtccc ccgactcaaa accctcgtcg ccgacatcct cagtttcagt 240
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tccctctatt aaccagctc tcgtggagat ttcccccca cgcatta 347

<210> 18688
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H3

<400> 18688

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aaaaggttcg gtacgattga tcgcgagaat gatattggtg ttccatatga agttggccac 180
cttgacgttc ttccgattca cacgaacaac attaagctgg ctgaagatgt tgacttgaag 240
cttattgcta acgataccca tgggttatgat ggtgctgac ttgctgccct ctgtactgaa 300
cctgctcttc aatgcattcg tgagaagatg gatattatag accttgtaga tgagaccata 360
gatgctgaga tactgaactc tatggctgtc tcaaatgac attttaagac tgcacttggg 420
acaagcaacc catctgctct 440

<210> 18689
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H4

<400> 18689

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ccatccccta aaaaggttgt gggtattgat ggtgggtgat gaggtgtact tctagagatt  180
tccagacaca gttcaatgga ctctattgac atatgtgtaa ttgatcagct ggatattgat  240
atctgcaagg aatacttccc acattaggct gatggatttg aagatgctcg tggccaactt  300
catgttggtg actctgtgga gttcttgata aatgcttctg aagggaacata tgatgctatc  360
aatgctgatt tatctgaccc aataggtcct gtcacgaac atgtggagaa tcctcttttt  420
gagaccat                                         428
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<210> 18690
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-H5

<400> 18690

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tgtgaccaca ttogtgattg gggtcttgga acacctgagg gtacatttgt ttccatgggt  180
gtgtactctg atgggtcata cgggtgttct tctggactca tttattcatt ccagtaaca  240
tgacgtgggt gtgaatggaa aatcgttcaa ggcctccga ttgatgagtt ctcaaggaag  300
aagatggatg ccaactgcca agagctgacg gaggagaaga cgcttgctta ctcatgcctc  360
gagtaaattc taccacaccc agagagcaat tgccacccca atgttttgaa taaaaaaga  420
aactccaact cgattcata                                         439
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<210> 18691
 <211> 374

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-G10

 <400> 18691

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 tgacgcggtg ggcgaggagc tggggctcgc ggtgacccca gccatctccc ccggctaggc 360
 gctggaccgt cacg 374

<210> 18692
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E5

 <400> 18692

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 ttgagaggag aggaggaaga tgagggagtg catctccgtc cacatcgggc aggccggcat 180
 ccaagtccgc aacgcgtgct gggaacttta ctgcctcgag cacggcatcc agcctgatgg 240
 ccaagtgcct ggagataaga ccgcgggaca tcacgatgat gccttcagca ccttcttcag 300
 ccagactggt gctgggaagc acgttccccg tgcaatcttc gctgatctag aaccactgt 360
 gatcgatgag gtgcgcactg gcacgtaccg ccagctcttc caccctgagc agctcatcag 420
 tggcaaggag gatgccg 437

<210> 18693
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E6

<400> 18693

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tgtagtgat cgtttgcttg ttgcaaagt tggagattct agagctgata tttctaaagg 180
agggcaggcg attgcggttt caagggatca caaacctgat cagacagatg agaggcaaag 240
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aatcaaagag gaggtggctg acagcttcct cgaattcctc atacttgcta gcgacggact 420
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<210> 18694

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E8

<400> 18694

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gcaagtagct gagttagctt ccaaactagc agttgaagaa gctgcatatc gtgatgttca 180
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tggtttactt caggttcgag ctgatcgaat ccagtatcaa ttagaagaga tggaaaaagc 300
tcttagtgaa cggtgcaaac actttgaact taaattcaaa ccatctgcat cagttgagct 360
tccttcggtg tgggaacctg ggccacaaga gggactcatt gagtgggatg aagactggga 420
taaatttgaa gatgaagggt ttagtat 447

<210> 18695

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E9

<400> 18695

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aattgatcgt ggagaaagaa accaaaggag cagttttattc gctgaatgca ttcaatggga 180
aattgttggc tgctatcaac cagaagattc aattgtataa gtggatgtca cgcgaggatg 240
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aaacacgtgg tgacttcatt gtggttggcg atctgatgaa atcaatatcc ttgctgggtg 360
ataagcatga ggaaagcgcg attgaagagc gtgctaggga ttacaatgca aactggatga 420
ctgcagttga gatgcttgat ga 442

<210> 18696
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-019-Q1-K1-F1
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ctccacctac tgctggcgct cctgtgaggc gacgccggac cggccacccc gcatgcgaac 180
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ctgcattata ttccatagaa atggctatgg ggttgattaa tgctaactct ataatccatg 360
agaaaaaaga aagacgcatt cgacaggcac cagagaccac agatgaaaat gcggcagagt 420
ccatagacca gctggaaata ttt 443

<210> 18697
<211> 223
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-019-Q1-K1-F10
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 tcggaagtac tctctcacga atctcctccc ataatctcct cgctacatgc gctggccacg 180
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<210> 18698

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F11

<400> 18698

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 tttgaagctg ttggagttaa ccctaaagtt ggtggaatag aggttgattc cttgttcaga 180
 actagtgtac ctggcatctt tgcaattgga gatgtagcag cgttccccct gaagatgtac 240
 aatagaattg ctcgagtgga acatgtggat catgctcgga agtcgcgaca ccactgtgta 300
 gagacgctcc taacattcca gacaaaagcg tatgactacc ttccatactt ctactcgagg 360
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<210> 18699

<211> 415

<212> DNA

<213> Zea mays

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<400> 18699

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 agttctacgt catcacgtgg acgtccccca aggagcaggt gttcgagatg cccaccggcg 360
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<210> 18700
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F2

<400> 18700

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<210> 18701
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F3

<400> 18701

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ctccacctac tgctggcgct cctgtgaggc gactccggac cggccacccc gcatgcgaac 180
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cgccccgcca atcgccgtcc gccgaaccgc ctatgaatct gttttcctca tctaaagtta 300
ctgcattata ttccatagaa atggctatgg gggtgattaa tgctaatact ataatactat 360
agaaaaaaga aagacgcatt cgacaggcac cagaaaccac agatgaaaat gcggcaaagt 420
ccatagacca gctggaaata 440
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<210> 18702
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-F4

 <400> 18702

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 catccatcta cttatcacgc ttctatcatg cgacgccgga ccgtacacca cacattcgaa 180
 cagcgcacgg accggccacc ggtgtgactc ctccatccaa ggcttttagct ccatacggag 240
 ccgccccgcc aattgccggt cgtcgaaccg tctaggaatt tgttttcctc atctaaagtt 300
 actgcattat attccataga aatggctatg gggttgatta atgctaatacc tataattcat 360
 gataaaaaac aaagactcat tcgacaggca ccatatacca cagatgaaaa 410

<210> 18703
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-F6

 <400> 18703

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 cccaaaccaa taatcagccc catctaaact cttagatcta actctaactt tcatacaatc 180
 tagctacatc ctttcttcac aactactcta cctaacaatc ttcccactaa acatgtacca 240
 gcaaacccaa ttaagatcta caatataata cctaattctac aacatctgca ccatacctact 300
 aattctcaac accaatgtgt agaaacccta ctatcatacc agacaaaacc ttatgactac 360
 cttacatact tttaac 375

<210> 18704
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-F8

<400> 18704

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tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg 180

agacgcagag gtcccgcggc ttcggcttcg tcaccttctc cacggaggat gcgatgcgga 240

acgccatcga gggcatgaac ggcaaggagc tggacggccg caacatcacc gtcaacgagg 300

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ccggcggtta cggcgtt 377

<210> 18705

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-F9

<400> 18705

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gaggcggtgg cctcgggcgc cgcggcggcg atggtctcct cgtgcaggc gctggccacg 180

ctcgtcccgg gcctggccta catccacgcg ggaccggtgc tccgcctccg gtccccggcc 240

gcggaggcgc tgggccccac gcacctctc cacaccgct acgccaccaa ggaggacctg 300

gcgtcctacg cggcgacccc ggcgcacgtg gccgccgtgc aagggcacgt tctcccaac 360

gcgtctgaca tcaccgcgt cgactgggtc aacgccgcgc cgtcccgtc ccccgcgcc 420

ccgggcagcg ccgtgcgcct cacgtggc 449

<210> 18706

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E4

<400> 18706

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 gagggcaggc gattgcggtt tcaagggatc acaaacctga tcagacagat gagaggcaaa 240
 gaattgagga tgcagggggc tttgttatgt gggctgggac atggagagtg ggtggcgctc 300
 tcgctgtctc tcgagcattt ggtgataaac tcttgaagcc gtatgttggt gctgaccctg 360
 aaatcaagga agaggtggtc gacagctccc tcgaattcct catccttgct agcgacggac 420
 tctgggatgt tgtcactaat gaggaagctg ttgcc 455

<210> 18707
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-019-Q1-K1-C8

 <400> 18707

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 tacgcatcta gctaaagatc gagaggggta aataaggacg agtgggcgct agctagaaga 120
 gcagctgcag gtactaccat catcgctcgtc gtcgctcgtc ccaggatgac cgctcgctgac 180
 gccgctcgtc cctccaccga taccggcgcc cctgccgccg ccgccgtacc ggcggggaac 240
 gggcagaccg tgtgcgtcac cggcgcggcc gggtagatcg cctcgtgggt ggtgaagctg 300
 ctgctcgaga agggatacac tgtgaagggc accgtgagga acccagatga cccgaagaac 360
 gcgcacctca aggcgctgga cggcgccgnc gagcggtga tcctctgcaa ggccgatctg 420
 ctggactacg acgcatct 439

<210> 18708
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-C9

 <400> 18708

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ttgaacctag tggatcatctg aggccaccat tgcaaccatt ccaaggacaa agattatcta 120
 accgagttca aaaagatggt tgacctcatc aaacaatata acctgaacgg gcacattcgc 180
 tggatctccg accagatcaa tcccgtccgc tactgcaagc tgtaccgcta catctgcgac 240
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<210> 18709

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D1

<400> 18709

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 gggcaattgc agaggcatta agaaatgagg acaggatcca tattattgat ttccagattg 180
 cccaagggac acagtggata aactgatac aagcgctagc tgcaaggccc ggggggtccac 240
 cacacgtgcg gatcactgga atagatgacc cagtgtcaga gtatgcccggt ggtgaaggtc 300
 tggaccttgt agggaagatg ttgaaaagca tgtctgagga attcaggata cctttggagt 360
 ttaccctctt gcccggtatt tatgcaactc aagttacaaa agaaatgctg gacattaggt 420
 caggcgaagc acttgctgtc aactt 445

<210> 18710

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D10

<400> 18710

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 ccgagaagcc gggctcagcg tgcgtacagg gacagagacg gcaagccgga gtgtggatcc 180
 gttggtgcaa ggaggaccat cactcagagc gagccatgct gcagcacggc gaggagaaga 240
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gcggcagcgg cggtctccag cagcgcttcg tcatcccat cggtacctg taccacccgc 360
agttccggcg cctgctggat gccgcgcgcg acg 393

<210> 18711
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D11

<400> 18711

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actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gagggggccc ctttaaaagc accaatTTtTa 240
actacccttt gcaacaaact gaaaaacttt ttaaaggcg acccaaattt aaattaatgg 300
aacttgTTta aaaaacggat aaattggaaa accctggTat taaccaactt tatcaccttt 360
aaaaaaaaaa cccttttgaa aatatggTta atatacaaaa agacacaacc aattgatctt 420
t 421

<210> 18712
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D2

<400> 18712

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ctctcgccac cgatgctccc cgacgcgtc gcgacgtgc cacggacttt cttctgctcc 180
cgcccaacgc ggcaactgcc caccgtccgg ctcgccTtag ccgtacgtgg cgaccggTgg 240
agctggagtg cgcggataag ggatctcacg gtatttgcca ctttcacgga agcggatcgt 300
gaaagggatg aagaggatgt cgccgacgat tactattccg ttctgggtgt gatgccagat 360
gcaaccactg aggaaattaa gaaggcatac tacagttgca tgaaggagtg ccaccctgac 420

cttagtgggg accaccctga cgtgacaaac tt

452

<210> 18713

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D4

<400> 18713

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gatagtggaa gccttattat cctgactggc caggataatg agaagccgtg tcccatgtgg 120
ataatatggg gtggcacagc aaaccgtggg aggctaaagc ttaggtgtga ccatggccct 180
gaaaattgga ccagtggagt tgatcttggc cgccttctgg atcgtcttga acttgacctt 240
atcataacca atgaatcact caaagatgcc gtgcagcagc aaaggctcgc gttggtggct 300
gcagctaact ctgctgttgg ggagtcgtcg acagcagctg ttcttgcccc agaagaaaag 360
gtggagatct tcgagcctct ggggatcaaa atcgagcagt tgccctcggca cgatgtttcg 420
gcctctacg 429

<210> 18714

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-D7

<400> 18714

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acggggggccg cactaaggcc gtcgacgtga ccggccccga cggatccttc gtcagggggcg 120
gcggagggcg aggaggaggc ggcgggcggt acggctcccg cggcggtggc ggatctggcg 180
gcggcggtcg cagctactgt ggtagctggg gcggcgggcg gagatccggc ggcggtggcg 240
gtccccggcg gtgctacaag tgcgggcgagc ccggccacat ggcaagggaac tgccctagcg 300
ccgacggcgg aggcggctat ggcggatgcg gctacggtgg cggcggttac ggaggacgag 360
gaggagggcg tggctgcttc aagtgcggcg agcctggcca catggccagg gactgctcca 420
gcggc 425

<210> 18715
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-D9

 <400> 18715

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 gaacttgctc ttgtcggcca ggaaatcatg agttgactga cgacacacta gatatacaca 120
 attagatggg acatgcttcg gcctctgatg gcaacaagat tggatatcag ctgccatgga 180
 gggtgctagc tattcagtct tagcgacgtc atcaagctcc aaggccacag caccaacaaa 240
 tgcattttgt tgctgctgtt cgtgcctttt gtacacatgc taacacataa tccatgtcat 300
 ttgtgaagag aagctgccat ggacagtgc ttcattccaca atattatgtg gatggcggca 360
 gctggagatg ttaggccccg atcgaatggg gatcagcaga tgagacttgc ttgggctttt 420
 ctggcactcg tagttctttg ct 442

<210> 18716
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E1

 <400> 18716

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 gccgtgtgcc ggccgaccag cccagaggcg tcgaggccgc ggctattgac agttaggtcc 120
 gggtcggagc cagccgtcga ggcccgatgg gcagcaggac gacgctgccc ctattaataa 180
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 gctgctccgg cccgcgttcc gcctgggtac cggcgtccgc cgcgccccgt accgtctcgt 300
 ccaggaacag gaagagcagt aacctatgca cccattcatc ggggatcacc aggggtcagg 360
 ggagcaagat gtcgactgcc accgtcccaa gattgcccgc tccagatcc ggggcaagct 420
 atcactatca gacga 435

<210> 18717

<211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E11

 <400> 18717

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 aggctacaa tacatcgacc taggccaaga acacaaatga ggagtgccaa cgctcgtcca 120
 tggctatgta gacgaacaaa ggcgaccgct tcacgctgta caccaacgac gagcgaaccg 180
 acgccgcgct tgtctaccag ggacagcctc caccagctaa ggatacatcg agctcg 236

<210> 18718
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E12

 <400> 18718

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 gctgtgctga acagcgggaa gacgccgcag gcggtggtgg ccgtgctggt ggcggcggcg 120
 ctgctggctt cgtccgcttc ggcggcgatc acctgcgggc aggtggggtc gtcgctggcg 180
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 ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcaccgtcgc caccatcccc 360
 ggcaagtgcg gcgtctccgt cggattcccc atcagcatgt ccaccgactg caacaagatc 420
 agctaagtta cgacgaccaa 440

<210> 18719
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-E2

 <400> 18719

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 agccgccatg cgtgtgcccc gcaactgtaca acatgcatcg tgcacgacc caccacaacct 240
 catcctccgg ccttcgctta acatgggtac cggcgctcctc cgcgccctgt accgtgtcgt 300
 ccaggaacat gaagagcact aacccatcca cccattcatc taagatcacc aacgggtcaag 360
 ggatcaagat gtcaactgtc 380

<210> 18720

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E3

<400> 18720

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 acaggagagg aggaagatta gggagtgcac ctacgtccac atcgttcatg ccggcatcca 180
 agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240
 agtgccctgga gataagaccg ccggacatca cgatgatgcc ttcagcacct tcttcagcca 300
 gactggtgct ggaaagcacg ttccccgtgc aatcttcggt gatctataac ccactgtgat 360
 cgatgacgtg cgcactgtca cgtac 385

<210> 18721

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C7

<400> 18721

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 acggccagcg agctgtctgc caaccggctt cgcaagttca accccgaaga gaagcggcat 180
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ctggaagacc agatccgcgc ccatttcgcc gcctgaattt ccccatgctg caattcgacc 300
tctcggccac cgaaggccat gcccgcc 327

<210> 18722
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B3

<400> 18722

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atcaaagagg cacctcaggg ctggttggac tgtcctgcat ttggggagcc aatagataaa 180
atcataccat ctaaagttcc tctcgatgaa acattcaatg agtcagtgcc tcttgggaag 240
cgatactcct caaagcaact agttaacaaa caaagaaaag ctggtcgtga aataggtctg 300
gtgattgatt tgacaaatac caccaggtat tattcaccag ctgaatggac gaagcaaggt 360
actaagtatg cgaagattgc atgcaagggg agagatgcgg tacctgacaa tgaatctgtt 420
aataagtttg tctatgaggc aatg 444

<210> 18723
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B5

<400> 18723

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agtaaataca gaggatctct tatgggtact aaagagaaca gatatggtct ctgctgggca 180
taaaaagata gggaagtaaa ctcacgtttg gaagaatcgt gagcaggagg agaagtgtct 240
tttatcccc attgcataac acctgttttg cccttttgac tagcatacat gggaatgagg 300
acacttaagc tttgtgatga ggtgaggtga gaaatgggag ttgagagaca gacttgagag 360
ggagagatgc aaagagcaga acaaaatggg cagcaatatt ggctatggaa ctgaagcacg 420

agcacatggt ag

432

<210> 18724
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B6

<400> 18724

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cttgccaaga tgcctaataag cggttggtac tgcctctctgc tgaatgacac tgatcatggc 180
ctaaccatat gcctgctagg cttcacctcg aacagagtca aagagtgtca gtcatgggaa 240
cgcgtgccac tggaactacg ttcattggtga accaataccg atatcatgaa cttactagga 300
cgcacatgca cctgccgaat atagtgtcca tatgtgcgtt tgaaaggcca ggcgcttgat 360
ctgatacgct ttt 373

<210> 18725
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-019-Q1-K1-B7

<400> 18725

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cacgtcacgg agctcggggg ggcagccttc ctcttctcct ggggctggta cgatcttgcg 180
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ggcgtcggct acgtcggcac catcgtcccg cagtcgtagc ggaagcgtgt ccagatcatc 300
cgcttctctc tggttttcgc atttgtgtctt gggtaagttt cgtagtggat gaccggtttg 360
aggtaaagat catgcatgcg gtcctctctt ccatcgtctn tttttgggga cgggccgtgt 420
gtgcttcgtc gacct 435

<210> 18726
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B8

<400> 18726

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agctcaagga tcttgcaag aaccccgagg atgggttctt cgccgtgctt gtatcgcaca  180
gcaacatctt cgagtggcag gtcacatca tcgtaccgcc tgacacccta tatgatggag  240
gctacttcaa tgcaataatg acctttcccc agaactatcc caacagcccg tcatcagtaa  300
gatatactcc tgagatgtgg catacgaatg cgtatcctga tggacgtgtt tgcatttcta  360
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t                                                                    421
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<210> 18727
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B9

<400> 18727

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ttggcagcag aggcagcatg gatgcctgct ataggcaatg tttctactgt gctgtgtttt  180
ggcatctgcc tggttctaaa tctaactc actggtggct cgaaccgtgc tattttcttc  240
ctggcgccaa tccttctgct tctgaaccag gattcagata tcttcgcagg gtttggtgat  300
aggcagcgtc atttcccagt aacagtttct atttctggct atttattgtt gacagcgttg  360
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<210> 18728
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C1

<400> 18728

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tgctcttgga gctctaggag caccttatgg ttcccccttat atagccatgg atggaagtta 180
ttactctcga caatctgaac aagcatcttc atcagtttct attagagaac ctagtgcaaa 240
taatgcttct tctctgttga agtcccaaga aataacagag gttgcaagt atgaaataac 300
tcaacgcca aataagcctc gtcgatactc ggagatgaac tttggccaat gaacatagct 360
gtgaccaatg aggattcatt ggagcttagg acccaagtaa gacctgtgca agagacccaa 420
gccttactaa gtccttgcaa ca 442

<210> 18729

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-019-Q1-K1-C10

<400> 18729

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gcgtctgcta ttacagatc actgctgttg atcctgtaat ggaggatgag gacttgggta 120
gcaggaggga aaggatTTTT tctttattta ctggtactgt acgtgcacgt gtttttgacc 180
gttttctttt cgatacacca ttcacaaaaa atggaaaaac acaaggtggt ctagaagacc 240
agtgaagag gcgtaccgtg ctccagacag agggttcctt tcttgctttg gtgaaccgtc 300
tgctagtcac caaatctgaa tctctggagt tctctcctgt tgagaatgcg attggaatga 360
tcgaaacang aacagctgca ttgagaaatg aactagaaga accacggagt tctgaaagt 420
atcaac 426

<210> 18730

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C11

<400> 18730

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agcaggtcgg cgctctgccc ccagctcatt gatcctgtcc tcgctataag gtagtcctgc 120
ggcggcctcc gaatttcact cgatcgaaca cgacatgaag cggccacgcg gcgccagtcc 180
ccctctgggt gcgatgacca atccgaacga tgatgggttac ggctggtcg ggatggaggc 240
ggacgcagac gcggacgcbg acgaggagat gatggcgtgc ggcggcggcg gggagaagaa 300
gcggcgccctg agctccgagc aggtgcgcbg gctggagcgg agcttcgagg tggagaacaa 360
gctggagccg gagcgcaagg cgcggctggc gcgcgaacct cgcctgcatc cgctccaggt 420
cgccgtctgg ttcc 434

<210> 18731

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C12

<400> 18731

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tcgtcgtggg cctggcgagg tgcgccgaca gcacgaggaa gaacatgaag gctgaggccg 180
gtttcaaggg tcttcagggt gcgatcaagt gcaagaacag caacggcgag tacgagacaa 240
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acggcgccga ctgccacgcbg cagctccaca gcgccgtcaa taacgcgcct tgcctggggc 360
aggagccgtc caagatcgcbg cccatgtcaa gcggcacctt cgtcgccgtc cctggcaaga 420
tgcaact 426

<210> 18732

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C2

<400> 18732

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aggggagctc cagaaatctc gatgccagcc ctctgcaac tccgggttct cagagcgtga 120

cagagcttga tccaaagctc cctcaaactc cacgtcccaa cctgaaggag ctaggcgaga 180

agcggacgtc gataaagatc gtagtggacg aagaagcaag cccggcagac aaggtgggag 240

gtgcgagaaa ctcaggagaa gatgtggcga aggtgataga gaaaaatgca ggtgaaccgg 300

gcaggtcact gacaagcaca ttgagcagga agatttgagc aaggagagca gatgataggc 360

tatcagatat ccccgagaag attgaagctc gtggatctaa gccggtgagt gaagggccta 420

ttcttgtagg aggtgagcca atgataacag 450

<210> 18733

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C3

<400> 18733

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aaaggaata gatgttccca tcctgatcaa aaggaataaa aatattctga aaattgccac 120

atcc 124

<210> 18734

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-C4

<400> 18734

ctttgtccgc gtggacgcgg ctgacttgcg aacccaccgg accaaccagg acttgagcgc 60

tgccgcgtcg gagttcgccg gcggtgagga gcagaagagg aagggaacca aacaagatg 120

ggctgctcca tctcggggct caacgcgtc tacgacgcgg ccacggggcg cggcgacgtc 180

tggatcaacg agcgcgcgtt ccgcgtcctt cgccagatcg gcgagggcgg gttcgcttc 240

gtctacctcg tcagagagca ccagcccgcc tccgatgcgg cgttcgctag gcgtgacccc 300

gcccacgtct cagaggatgg aacgtatgcc atgaagaagg tgctgatata gagcaaggag 360
cagttggatc tggtagagga ggagatccgt gtgtcgtcct tattcaatca ccccaacctt 420
ctgccgcttc ttgatcatgc cataatagcc 450

<210> 18735
<211> 171
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-019-Q1-K1-C5
<400> 18735

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acgggctctt gccggcgccg ccgcagagga tccgggcggc ggcggtcgct ctccctgtgga 120
catctgggag catctggcgg tacccttct ctaccaatac caggatgatg t 171

<210> 18736
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-019-Q1-K1-C6
<400> 18736

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ggggaggccc ggcgatctct tctgttgcgt gcggcgaggg agtaaaagga gccgcgacag 120
gatgcactcc tttgggcacc gcgccaacgc ggtggcaacg ttgcgggtca ccatactggc 180
cgcgatttgc ttgcgcgcct ccttctccga caacttcaac accccgacac cactgcctc 240
cgttaagatc ttgaatctaa actggttcca gaaggaggcc aacggcaacg acgaggttag 300
catgacgctg aacatttcgg ccgaccttct gtctcttttc acgtggaaca caaacaggt 360
gtttgttttt gtggcagcag agtatgagac tccacagaat gctttgaatc aagtttcctt 420
ttgngatggc attatacctg caaag 445

<210> 18737
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-019-Q1-K1-B2

<400> 18737

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agcgggtggga cgacaccgtc gcaggcccgcc gcccgacac cgggctcggc cgcctccgca 120
agcagcctgt gcgtcccgcc gccgtcaaga tcagtgatcc ggccggggac gctgcggcgt 180
tcgtgccgcc ctgcgccggt tcgggtagcg aggagacgcc ggtgaagggtg acgcgcagca 240
tcatgatcaa gcgccccgcg gggtagccgt cgtcgccgag gagcgcgga agcacgccgn 300
cggcctcgcc actggggact acggccgcca tctcgccgtt tgccggcgcc ggtggtcgct 360
tcagaaggaa atcatcgtcc gacgcatacg agagggcgac cccaccaggg acgaccagcc 420
accc 424

<210> 18738
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-H7

<400> 18738

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cggcgtcgtg ggcggagact ttatcttaag cctgaccgag cccccggtct gcacaccgag 120
gccgtgggac tgctgcgaca gcgtggcctg cacaagggac tacatnccca actgcatgtg 180
cctggacaaa gtggagtcgt gctcgagcaa ctgcgaacgg tgccaagtgc tggatca 237

<210> 18739
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H8

<400> 18739

tcactgatat tattaagagg cccaagatct ctggagcaca gcttgagcc atcctacctc 60
tggctattgc tcatgctatg ggcaatctct tcaccaacat gagccttgag aaagttgcag 120

tgtcatttac gcacaccatc aaggcta

147

<210> 18740
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-H9

<400> 18740

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ggagctacta gagaagggtc agaagacctc ctacctgggtc agcctcgttg acaacgacta 120
cgtccagggg gacctgtttg ctgccttcaa gatctgatta tgctctcatg gtctgtattg 180
ttgtatggtt ggaccaaca atattcttgc atccccgact acaggtctga tcgccatgaa 240
agcttctgtt catttgagct cgggggagtc cgctagtctt atttttcttg atttctcttg 300
gctttctgga accatacgaa tcaataagaa atgagctgtg ttcactttcc agttcctncc 360
tgcaagtggc gcaacggcca ggttctagat gtaaaattcg 400

<210> 18741
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A1

<400> 18741

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ggttcaccgg gatttattaa gttagatgaa gacattttat cccctctagc agtaaagaat 120
gaactgtaca cataccaaac acttgatttc tgggaacata tcacaacccc agagatgtct 180
taatgaactc tggagtatat ctctctcagt attcccatc ctattctcat cttttagact 240
catgacatgg cataaaaaact agcactatct gtggcgatgt ctatatgcat tcatttgaca 300
aagtgcaccc tacttcaaag aatgggtcca atgtctctat atcagccaat gcacgctttg 360
tatcttgtgc caggcttatt aaattgcata at 392

<210> 18742

<211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-A11
 <400> 18742

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gtttcagaac gtgcggcagt ttagccagga tgggtggcgat cgagaaccag aaccagagcc 120
aggccgcggt ggcggtggcg gcggaggcgg tgccggcgcc ggcgccgcgg atccccaagg 180
aggcgccggc cctgctgcac gagctggcgg cggcgctgggc ggacgtggcc gactgccgcg 240
cgctggaggt cgtgccgctc aagggggcca tgaccaacga ggtctaccag gcgcgctggc 300
tcaactgcagg ccctgccggc caggaggagg agcccagggc ggagagggag gtgaggaagg 360
tgctcgtgcg gatttacggc gacggcgctc acctcttctt cgaccgcgag gacgaggtgc 420
gcacct 426
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<210> 18743
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-A2
 <400> 18743

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atcgagggaa acggccgttg ctcccaccgc tgctgatcca cggcgggtca atcagcgctc 120
cggtaacccc tctctaaagc tcgccgtctg cccggacgcc ccggatgaag acggactggg 180
acgaagcggc cgtccagcct ccatggcacg gcgcaagcag cccacgata gtgaactcca 240
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tctcgtccac cagtccaaac tccccgacat tcagcctcgt ctccaccaac ccgttcggcg 360
tcttcaagga gtccatcccg gtcggggcg gcgactcgtc gatgaggatg tgcacgccgg 420
ggcagagcgg cgctgctcc cccgc 445
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<210> 18744
 <211> 368
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A3

<400> 18744

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tttgaactaa accaaagagc aagggaacct tttttttttg atagaacagg aggggagggc 180
ccctactgga aattttattt aaaatttgaa aagaaaacaa tgtttagaac aaacaagaag 240
acaaattaca ggggggtaag gagagtgtgt actgccattg atttctactg ccattgttga 300
agccaagtcg ggatggcaga atcaaacta tccaaagctc tgtgaatgac aaggagcaat 360
ttatttgc 368

<210> 18745

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A4

<400> 18745

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agcgcgggag atggcggatc aggagacccc agttgcagtt gagggcccta ccccggtcct 120
tggggagccg atggacctga tgactgctct gcagcttgtc atgaagaagt cgggtgctca 180
tgatggcctt gttaagggtc ttcgtgaggc tgccaaagcc attgagaagc atgctgctca 240
gctttgcgtg cttgcggagg actgtgacca gcctgattat gtcaagctgg tgaaggctct 300
ttgctctgag cacaacgttc acctggttac tgtgcctagc gctaaaactc ttggcgaatg 360
gtctgggctt tgcaagattg attctgaggg caaggcgagg aagggttggtg gttgctcctg 420
tgttgctgctc aaggactatg gc 442

<210> 18746

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A5

<400> 18746

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cacgagactt tgtaggtta gatcaagaca ttttatcccc tcgagcgga aagaaggagc 120

tgtacacata ccagacactt gatttctggg aacagatcaa aaccccaggg atgtctttga 180

gatgctctgg gttatatctc tctcagtttc gccatactc tcctcatctt ttagcctcag 240

gagatggcaa aagaactgcc actattgttg gcgatgtcta tatccatcca tctgccaagg 300

tgcctcctac ttcaaagatt ggcccaaagt tctctatata agcaaagtca cgcgttggag 360

ctggtgccag gcttatcaat tgcataattc tggatgatgt tgaaattatg gaaaatgctg 420

ttgttatata ttcaattg 438

<210> 18747

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A6

<400> 18747

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ccaggcgcaa gactgggtggc aagcccaagc cagcggggtc cggcagcccc tcgtacggag 120

ccgaccgaat cctgtacctg tgcccgatgt gcggtcagcc accaagctac ctgaccagcg 180

agttccccag gggactacgg ctgggacacc aaggcgctgt ccgccgacct ggagactttc 240

gccaaagaacc gcgagattga ggccagccac tgctgtgga ccatgctaag cgcgctcggc 300

tgcatgacac cggagctgct cgtactgaac gtcgtcatga tactctaggc caattggatc 360

aaggccgggt gacagatctt tagcgaaagc cgacttgact acctaggtga tcctagcctg 420

atccacgcgc atagca 436

<210> 18748

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A7

<400> 18748

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ccgggcgatc gatcttttgc atggcagcag cggctagctc caaggggcgg gcgatcgctg 120
ggagcttcgt cagccgcgtc ctggccggca aggccgacta cccgaggagg gccgtgcacg 180
cctcgtcgta cgacaagaac ccggaggagc aggtgcgccc ggcgttcgtg ccagacgatg 240
tgatcggcgg cgcgagagc cccgacaagt actggagccc tcacccaag accggcgtgt 300
tcggcccggc ggcggtggac accaaccagc tgggcgtacc cgctgacgct gtcgacgcga 360
atgcggctgc agcaagaggc acggtgc 387

<210> 18749

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A8

<400> 18749

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aactgtggac gccagacttc aacaattctc tctgatgaac aagtccaata agcatgcact 120
tagggtcata gctgagcatc tttcactaga atacgctgct gacatatagg atatatttgc 180
caagatggat cttaacaagg atcaaatgct caatttctat gagctgaacc ttggtctgca 240
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tgatggaaac cggtccttgg attatggaga atttggtaga ctatctgtgc atctaacaaa 360
gattgtaaat gatcagcatc ttcataaagc atatgcatac ttgaccgga accagagtgt 420
gtata 425

<210> 18750

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A9

<400> 18750

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cttgtgtccc ttacgcttgg agcacgatgg cagtatgatc ataaaccgga tgaaggaacc 120

gccgaacgga aacttctata agcctgcata aacccgatag attggatctg attatccctt 180
attcttgaga tcttttagtta gagttttccc ttctgtaggg ctaaaaccac gtgcagcttc 240
atgatataatc ctgcctctgt acaatcgtga acaaataatta cgtattaatg ctctatctgc 300
ctgtattata tatgctgctt ttgcccacatg tgaa 334

<210> 18751

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B1

<400> 18751

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atgagtcatt aatcatcatg acggtatcat tggctttcgt ctagagcatg tagatccatg 120
agtacatata caggatcttt catggctact aaagagaaca catatggact ctctgctca 180
tataaagata cgacaataaa ctcacgtttc aaataatccc gagcatgatg acaaacgatt 240
tttatcccc attgcataac acctgctatg accttttgac taacatacat agcaatgagg 300
acacttaagc ttgtttataa agtaaccaga taaa 334

<210> 18752

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H4

<400> 18752

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ttgcagtgtc atttacgcac accatcaagg ctatggagcc tttcttttct gttattcttt 180
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<210> 18753

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F5

<400> 18753

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gaggttgctg cttggcataa gctcatccac cctaagtta caaagtttgt tgggtgcatct 180
atggggacca cagaccttaa gattccatca aacaattcca atggtgctgc acgtacaaat 240
ttgccagcaa gagcatgttg t 261

<210> 18754

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F7

<400> 18754

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aagaagtcag agaccaagca acgaatgagc tgtcgacaat gtgagcaata agcagtcac 120
agatgagaaa ggaacatgcc aagagcagtc ttcaagagct ggcattgctg ctttagtgat 180
tggtggggaa aggcgtcaca tgcggttagt gggtcgtgta gagagatgta gtggctgggtg 240
tcgggcccgt 250

<210> 18755

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F8

<400> 18755

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catggagccg gttgttgctg gcagcaacac ggtagtagct gttgccaag tcgagttgca 180
aacaatgaac gtgcagcagc ccgctgatgt tgccggaccc agcgaggggg tggcggcgat 240

ctccaaaggg gggaaggtag ggccgaaccg gtgcagcgcc tgcaggaaga gggttgggct 300
cacgggattc aactgcc 317

<210> 18756
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F9

<400> 18756

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cacttggtgg ttttggttg gagattgctt tagcttcctc ctttccttga cacggtgtcg 120
gattgagcag gaggagtgg gcattgagaag gggctcctgc cgcaggcctt gccttcatgg 180
ctaacaagga taaccgacag aatctgccag tggactgggtt tatttccttc tgcaatcaat 240
cacgtgctga taaatgagta tcattccctac ccaaagggat catgccacac caagatggtc 300
ctgcctacta ccctgtcgtt gctatcatat ctcttgcttc acctgtcgtg attaatattca 360
caccccatca aaagcttaaa gagcagcagg aactgatcc acaggactta ctggcccatg 420
agttgccttc gccagctgag acag 444

<210> 18757
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G1

<400> 18757

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ctatccaaga gcatttcac acaaggactg gcattcttcta ccgtggagct gatggaatca 120
ttattgtata tgacgtgaca gaccaataaa gctttaataa tgtgaagcaa tgattgaacg 180
agatagaccc ttatgcaagt gataatgtta acaaactcct tggttgagaac aagaatgacc 240
tt 242

<210> 18758
<211> 179
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G10

<400> 18758

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ctccacgtca aagactacag ccacgtgcgc tgcaaaatca gcagctggat ctccggccac 120
taccacctct tcttcacatg ccccgctat ctcaccacac ccggcggcaa catgcgccc 179

<210> 18759

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G12

<400> 18759

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agcaatacct gatcactact tcgcaatttt gtggggcgca ttttaggacc tagaggtaat 120
tctctaaagc gagtagaagc atccactggg tgtcgtgttt tcattagagg aaagggctcc 180
atcaaagatt caggaagga ggacaaacta cggggaaaac cgggctatga gcacctgagt 240
gatccgctgc atatcttgat agaggccgag ttccctgccg gtatcatcga tgcaaggctg 300
agacaagcac aggagattat agaagaattg cttaaaccag tggacgagtc ccaagatctc 360
tacaaaaggc agcagctcag ggagctggca atgctgaact caaccctgag agaggacagc 420
cct 423

<210> 18760

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G3

<400> 18760

cggacgcgtg ggagaaaaac ccaagaaata tctctgcggc cctgctcgtc ccgagccgag 60
ccggcgagat ggctgcgatg tctcgcgcga tccgcattct cgccgtcacg tcccggcgaa 120
ccctgaccgc tgcttcgggg ccggctctgc cgaaggaagc ggccgctgcg gaagcgctga 180

tgagggcagc cgcgcccggtg cgcatgggac gggatctggt ggacaggaag ctctgtcagc 240
 ggggtgctcct agggtgcccc ctgggtgggga agggctcc 278

<210> 18761
 <211> 205
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-G4

<400> 18761
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 atgagctgct tacatctaca ttagaggtga atacgtgaat gagcgtctca accttgagaa 120
 agctcggcag gaagcgtatg cagctggact tctgggtaag aatgctngtg gctctgggta 180
 tgattntgat gtgcatattc atttt 205

<210> 18762
 <211> 311
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G5

<400> 18762
 gcaagatggg aagaccataa aacttcaa attgggatact gctgggcaag agcgcttcag 60
 gacagtcact agcagctact accgcggagc tcatggaatc attattgtat atgacgtgac 120
 agaccaagaa agcttcaata atgtgaagca atgggtgaac gagatagacc gttatgcaag 180
 tgataatgtt aacaagctcc ttgttgggaa caagagtga cttactgcc acaaagttgt 240
 ggcaactgag acagcaaagg cgtttgctga tgagatgggc atccattca tggagaccag 300
 tgccaaaaac g 311

<210> 18763
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G6
 <400> 18763

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cctggctgcg agcacacctc gccacgctcg agctgccggc cccgcccccg ctgccggccc 120
cgccgcagat gcccatgccg ggcccgttct ccatctcgga cctgccgttg tgcaccagcg 180
tccccaccac cgtcgacctg tccgcgtctt tgcaccgcc accaccgcag tgggcgacgg 240
cgcatcagcc gcaccaccac catcaacagc cgccgcagca ccacca 286

<210> 18764

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-G8

<400> 18764

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agcgcgtcag ggaattccga agaagaccct cttactgaat acgagaaaat gagggctgtg 120
aatatgatga agaacaatca attgtttcaa cggctaggcc ttggacaatt aaaaacaatg 180
atcaccgcaa caactacaaa caacaatcaa ggcggctctc aggaatcagn gttcttatat 240
gatggtgaga acgttgagga ttctggtgaa gaggatgttg gcat 284

<210> 18765

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-G9

<400> 18765

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cgggatggcg acgttggcac ctacgatact gctatcaact gcctcagcta acatggagag 120
cttgatgagg ccaatggaat cgtacatcat atcgtgcata agggttgttt gccttacacc 180
acaacgttca acactctcat tgatgctctc tgctcacata atccactcga tgaagcattg 240
gaccttgacac gtcattctaac tgttaaggga cttctctccag atgtctatac tttcaatact 300
ttgataaatg ccctttgca 319

<210> 18766
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H1

<400> 18766

gcttggaaca actcttctgg tggcggcaat gctctgaata gtcaagcccc tgggtggacgt 60
 gcaggctatg gaagccaggg ctatgggtat ggtggatatg gaggggatcc atcatagcgt 120
 agtcacggag gatatggggc ttatggagca cgtattgata gtgctggcaa tcctgctact 180
 ggtggatcat ctggatacaa tgcaggctat ggaagtgggtg gtgccaactc tggctattca 240
 agtgcttga gtgaccttc gcaagggggg ggaattggcg ggtcgggtcaa t 291

<210> 18767
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H11

<400> 18767

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 ggcgcggtaa ggggtggcaag gggctcggca agggcggcgc gaagcgtcac cggaaggtgc 120
 tgcgcgacaa catccagggc atcaccaagc cggcgatccg gcggctggcg aggaggggcg 180
 gcgtcaagcg catctcgggg ctcatctacg aggagaccg cggcgtgctc aagatcttcc 240
 tcgagaacgt catccgcgac gccgtcacct aactgagca cgcccgcgc aagaccgtca 300
 ccgccatgga cgtcgtctac gcgctcaagc gccagggcgc caccctctac ggcttcggcg 360
 gctaagctga tgggc 375

<210> 18768
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H12

<400> 18768

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cgagagggaa gagatggcgg cgtcggacgt tgagtaccgt tgcttcgttg gcggcctcgc 120
ctgggccacc gacgaccact cctcaacaa cgccttcagc acctacggcg aggtcctcga 180
gtcgaagatc atcctggatc gggagacga gaggtccgc ggcttcggct tcgtcacctt 240
ctccacggag gacgcgatgc gcagcgcct ctagggcatg aacggcaagg agctcgacgg 300
ccgcaacatc accgttaacg aggccagtc ccgcggcggc cgtggaggcg gcggtggcgg 360
atacgtggc gggcgccgtg atggaggcg ctacggcggg ggcgggtggag gctacggcgg 420
tggtcgt 427

<210> 18769
<211> 193
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-018-Q1-K1-H2
<400> 18769

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ttccgaagaa gagcctcgta ctgaatacga gaaaatgagg gctgtgaata tgatgaagaa 120
caatcaattg tttcaacggc taagccttgg acaattaaaa acaatgatca ccgcaacaac 180
tacaacaac aat 193

<210> 18770
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-018-Q1-K1-F4
<400> 18770

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gccgcaagaa caagttcgc agcatgtccg cgcgcgtcgc ggagggccta gaccggctc 120
gcctcgcgcc gcacgaccgc gacgtgctcc acctctgctc caggctgtgg gaccccgcca 180
acgccgccac gtcgcccttc gtggccagcg ccggaacgtc cgggaacaag cgccgccgcg 240
ccaacctgca gggcacgtca ctccctccc cagacgcgtc tggggatagc aactcccatg 300

act

303

<210> 18771
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-H3

<400> 18771

atcaaaattc tgggaaggggc aaaccaacga gtgccccgtg atttagagga tatggcttct 60
cgtggcggtg gacgaggtag gaagaggaa ctttgggcat cccgccctga caggggtggt 120
tcacgttctg aactggattc aaggtacagc agcagagatg gactagcatc ttctgggaaa 180
tcagagagtg gtcgcggcag tctgtgaagg gatgataatg gtagccgtgg caagtacgac 240
cctggtgaaa ccgatgggcg atctcgtagg tctact 276

<210> 18772
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-D12

<400> 18772

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ttccggttcc tggcactcct cgccgtcgcc gggtcactcg ccggctccgt cctgtgcttc 120
ctcaatggct gtgtcttcat caaagaggcg taccagggtt actggtcgag ctgtgtcaag 180
ggggttcata cggggcagat ggtcctcaag gtcgtcgagg ccacgatgt gtatcttgct 240
ggaacagtca tgctgatatt tnggatgggt ctctacggcc tcttcacag caacgctccc 300
gcgggtgttc ctctgaatc cgaccgtgcc ctgagcggct cgtcactggt cgggatgttc 360
gctttgaagg aaccgcccga gtggatgaac atcacctngc ttgacgagct caagacaaaa 420
gtggggcacg 430

<210> 18773
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D2

<400> 18773

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aacggaaaaa atccttatat gaatatgact gtaagctgaa atcgaataac aaaagtagct 120
caaataatac aatggtgacc tgtattttca tgttctgcta ggtatgacga attggctagc 180
aagagcaatg ttgaatacat tgctggagga gccactcaaa actctatcag gggtgcccac 240
tggtatgcttc aaattcctgg tgcataaggt tacatagggt gcatcgggaa ggataagttt 300
ggtgaggaga tg 312

<210> 18774

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D3

<400> 18774

cttgacatc tatcccgctc ttggcctatt gcacattgcc tgccatctgc ttgctgacag 60
ggaaatttat cagccagag gttaacaatg ttgccagcct gtggttcatg tcaacttttca 120
tctgcatttt tgctacgagc atcctggaaa tgagatggag tgggtgtaggc atcgatgact 180
gggtggagaaa cgagcagttt tgggtcattg gaggcgtgtc ttcacatctc tttgctgtgt 240
tccagggact cctcaaggct atagctgggtg tagacacgag ctttactgtg acatccaagg 300
gtggagacga cgaggag 317

<210> 18775

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D4

<400> 18775

ggcagcttcc cgttgcagtc aagttcatca gctccccag aaacaatcgt ttctgcttgg 60
caagtgaatc aaactgagcc agtgaagaag ttgagccca gatctaaact gtggtctgat 120
actttgagcc gaggtctagt caatctggac atttctggac caaaagcgaa tcctcatgct 180

gatattggat agtgactttg attca

205

<210> 18776
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D5

<400> 18776

caagaaggag gccgagaaca agttcaagca gatctcggat gcgtacgaag tgctgagcga 60
cccgagaag cgcgcggtgt acgaccagta cggcgaggag ggtctcaagg ggcaggtgcc 120
gtcgtcgggc gccggcggtg cgggtccccg cggcgcaacc ttcttctcca ccggcgggcga 180
cgggcccagc gtgttccggt tcaaccgcg caacgcggag gacatcttcg ccgaattctt 240
cgggtggctcc agccccttcg gcggtatggg cggcggtggc attggcggca gcggcatggg 300
gggt 304

<210> 18777
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D7

<400> 18777

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gaggaggtac gctcaagatc tccgagaaga cctcgggccac gcgctccacc atcatcgctc 120
ccgtcgacgg cgtggcctgg ttctctgacc tcttcgacta ctacatccgc accgacgagc 180
gcgacgcctt cagcaaggag ctgcgactcc agaccaaggt gttctatttc gatatcgggg 240
agaacaagag gggccgattc ctcaaggttt ctgaggcctc tgtcaaccga aaccggagta 300
ccata 305

<210> 18778
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D8

<400> 18778

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ctctctcgcg tcggccgccc aggttgccgc cgccgtcgac gcggaggacc cgctgatccg 120
gcaggtggtt cccggtggag atgacaacga tctggagctg aacgcggagt cccacttcct 180
gagcttcgtg cagcggttcg gcaagtccta caaggacgcc gacgagcacg cgtaccggct 240
gtccgttttc aaggccaacc tgcgccgcgc gcgccg 276

<210> 18779

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-D9

<400> 18779

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atgttagggt atggttcagt tttggacagg aacagttagt gcattctttg atggaacagc 120
aggctaggta tgtagggaa aaaaatttgg tgcagcactg ctgcaaacca gagtggttgc 180
agccccctac aaaaagaagg atagacccca ccggtatttt ttccgtatgt tagttacgca 240
cgcggtagac cctagtgttg tttcatgcat ggatcagtct tatggattct tgtattatat 300
ctgttcccc attaacctgt gctgtcaaag ttttgggct 339

<210> 18780

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E2

<400> 18780

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aggagtaat ctctccctt cgccttggag acgaccaaga aaggtttatt ctttttatat 120
ttgatttgac tactgttctt cttttgtaa gcacatttgg tgtttgatac aagaattggc 180
taatgaagat gtcatttgca gtggctcgct ctttaciaat tccaactggg ttgcatttga 240
cgaggacaag gcaactgaat atggttttgg tagcccagaa gtttccccat ctccaaattc 300

<210> 18781
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-E3

<400> 18781

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gggagatcag cgaggccac gacaccattc gcttcggcat caacgcggc gtcaaagccg 120
acctcgcccc gccgcacccg ctccagtcta ccatccaatc ggagaccaag ttctgggcgg 180
acaagaagaa gttcgggaca gatgccatat acggatccgn cctcaacatc cgcaaggatc 240
tcgatgccca aatcctctcc aggggtccaaa ggcccccttg tgctttg 287

<210> 18782
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E4

<400> 18782

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gatgacttct tctgagctgg agaatgccac ttcggaactg ttcaacgtcc tcacaaggct 120
gctagacaac tttccagatg ttggcactga gaaaatcatt gaggccatga tgtactcgtc 180
aacctcaagg agcttgctcag atcatgaaag gatgaacgcc agaaaagaga tattgactag 240
ggctcttcctt agaagcctcc agaccgatga caccg 275

<210> 18783
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-E5

<400> 18783

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accggtcggg ttcctgtgcg gggaacagga gagaagggga gagaccgaga gagggggagg 120
 cgcggcgtcc gccggatctg ctccgacccc cgacgcatcc tgtcacgccg tectactct 180
 cagccagcga aaatgggtgc cggaagcagg atgaccgaga aggagcggga ggagcaggag 240
 catgagcagg tcggccgtgc taccggcggg ggcgcggc 278

<210> 18784
 <211> 213
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-E7
 <400> 18784

accaacaaca acagcaacgg cgtggaggtg aagagctact tcaacaagtc cgccgggagg 60
 gcggcgagca gcaacaacaa caacagcagc cacgccggcg gcggcaacaa gaagggcggc 120
 gccggggagt acggcaggaa gaagcacgcc aagagcgatg gcgcggcggc ggccggcgcc 180
 acggacaagc agcggttcaa gacgctgtcg gcg 213

<210> 18785
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-F1
 <400> 18785

gtcaagcgtg aaaagatcag gaggaaccag ctgatctacc aggacaagcc gcgggtcaag 60
 actgggttgg agatgctcag gaccagcatg tacatagaag acagcttgtc acaggtgacg 120
 ctgccgttct tcgtcctgca cggcgaggcc gacacggtga cggacccgga ggtgagccgc 180
 gcgctgtacg agcgttcggc cagcgccctac aagaccatca agctgtaccc ggggatgtgg 240
 cacg 244

<210> 18786
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-F10

<400> 18786

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gcccgtggcc gctggcgogg ccgtgctgga ccttcgtccc gcatcagcga caatcgtggt 120
cgtggctcaa acgcacgacc gccctgccag atctgtggca aggaggggtca taccgccatc 180
cgttgctggc acaggaatga cgacagctac aacactgata ctcccatggt ggcaatggcg 240
gccacctcct cgacaaaaat tgatccaaat tggtagctcg acacgggagc aacagatcac 300
atcactagtg atctcgatcg actgatgctt cgtgaacgct atcatgggtg tgagcaagtc 360
caagtcggca atggtgcagg accgtcagac gaagagaaag ctcttggaag gacaatctaa 420
gaa 423

<210> 18787

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F11

<400> 18787

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agttagccga tctgtggccg ccgcccgcgt cacctgtcag tcgtcgattg gagcagccgc 120
cggcgcgacg tgaggtatgt gaccgtcagc ctgccagtcg ccggtgtgca gtgaggtctg 180
tggccatcag cctgccagcc gccgattgga gccgccaccg cgaggtctgt ggccgtcggt 240
cgttgattgg agccgcccgc cgacgagccg tgggctcgtg gccgatgccg ccgtcgattt 300
gtggtcatca gtcgctgatt ggagttgtcg cccgatgatt ggtgggtttg tagccgcccc 360
cgccaataga ctgtgggttt gtagccgttg ttgtcgatcc gtgtcgagc gccacccatc 420
gatccac 427

<210> 18788

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-F12

<400> 18788

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 ttgccggggc aggccgatag catcattatc acctcaaag gagatgtata ttcgttttga 120
 gcaaactgct ccggtcagct tggccttggg gattcagaag accggttcaa gccatgtgtt 180
 attaggtctc tacaaggcat cagaatcaca caagctgcag ttggttcgag atgcacaatg 240
 cttgtgagtg acacaggaag cgtctactca tttgggaagg aggatttcag ggtcgcagaa 300
 ctagttgacg gtgctcattt tcagatcaca actcctagga ttgaggagtc actgaaagg 360
 gtgtttgtag ttcaagcagc catagggggg tacttctctg cagttctgtc cagagagggt 420
 cgagtgtaca ctttctcatg gggcaaag 448

<210> 18789
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-F3
 <400> 18789

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 aaagagcttg gaaaaccaat tgggcagctt attgtcattt gtggccggaa caaaacgcta 120
 agctcctcac tgcaggcagt tgaatggaaa ataccagtaa aggttagggg atttgaaacc 180
 caaatggaga agtggatggg agcttgtgat tgcattataa caaaagctgg accagggtacc 240
 attgctgaag ccttgataag ggggtcttct ataatcctta atgacttcat acctggacag 300
 gaagttggca acgta 315

<210> 18790
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-D11
 <400> 18790

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 tgagtaccgc tgcttcgtcg ggggcctcgc ctggggccacg gacgaccact cctccacaa 120
 cgccttcagc acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca 180

gaggtcccg gcgttcgggt tcgtcacctt ctccacggag gaggcgatgc ggaacgcat 240
cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggccagtc 300
ccgccgcggc cgtggaggcg gcggcgggcg cgggtacggg ggtggccgtg gaggcggcg 360
ctacggcggt ggccggcgcc gtgatggcg cgccggctac ggccggtggcg gcggctacgg 420
tggtggcggc gcggctacg gtggtggtg 449

<210> 18791
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-A9

<400> 18791
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ggaaacgcgc tcgcgcagct cgaccctgcc attcgcaaag tggatagccg gtacaccgcc 120
attgccaaagt ccttcattgt caactcaggg attgcggatt ttttcctcgt cgacacaacg 180
ccgttcattg tccactactg gaacaacacc aagttcgatt ggagaggcgt cgctcctcga 240
gacacctaca tcgcgaatct cctcaaggac ttgaagtgtg cactgacagc gtccaaggct 300
ccctggaaga tcgtcgtggg tcaccacccc atcagcagcg cctgcgggca tgggaacaac 360
actgagctgg aggagtgtgt tctcccggtc ctcaggacac acgnggttga catgtacttg 420
aatggccatg 430

<210> 18792
<211> 132
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-018-Q1-K1-B1

<400> 18792
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ataggtncta cggctcggct attctgaacg gtaaaacttg cacaaggcaa ctctgacatt 120
acaacaatgg at 132

<210> 18793
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B11

<400> 18793

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aggaagacaa ccggcgacgc ggggggaaca tggggaagac gccgggtgcgg atgaaggcgg 120
tcgtgtacgc gctgtcgcgc ttccagcaga aggtaatgcc ggggctgtgg aaggacatca 180
ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctccctaccc 240
ccgtcgtcgg cacctaccaa tacgccatgt ggtacaagga gcaggagaag ctttcccaca 300
gatattaaat gcgctgccct tgacagacag cactcggagt tttcatgatg ggtttcataa 360
tcctcccatg atgatttaac atttgtttga tcaatttcag ttcaacgcct tttcatcggt 420
ccatatgcat atatg 435
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<210> 18794
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B12

<400> 18794

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cacgtggatc tgatgcccg cgatccccgac gacgtcgccg tggactgcct ggccccgctc 120
ccgcacgcct cccaccgcgc gatgcgccgg gtctgccgcg gctggcgagg cgccgccgcg 180
gcgccggcct tcgcgtcggc gcgcgccgcg gcggggcgcca acgaggacct ggtgtacctg 240
atgcagttcg ggaacccgct cgccgacgac gggcccaagg acggggacga cgggcccggc 300
aacaccccg cgtagggcgt ggcggtgtac aacgtgacga cgggcgagtg gcggcgggag 360
cgcggcgcgc cggc 374
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<210> 18795
 <211> 180
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B2

<400> 18795

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cctggggcgt cgtcggcatg gccaccgacg tgctgcgcgc gcgcaacgtc ctcttgccgg 120
cgccgccgca gaggatccgg gcggcggtg cggcgcgccg gagggcatct ggtagcgaca 180

<210> 18796

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B3

<400> 18796

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atggagtact tcacaaagtt gatcaagaag aagtacagca aggacatcag caaggacaac 120
cgtgctcttg gaaagctgag gagggagacc gagcgcgcca agagagccct cagcaaccag 180
caccaggtcc gtgttgagat cgagtccttc tttgacggga ccgatttctc ggagccgctg 240
accctgtcca ggtttgagga gctgaacaac gacctcttcc gcaagaccat gggccctgtc 300
aagaaagcca tggaagatgc tggccttgaa aaga 334

<210> 18797

<211> 323

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-B4

<400> 18797

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tgaaggggta tccgctgtga ctgctcctat tttgccagga aggccataaa ttgaaaagct 120
ggagattgaa ggaagagggt tccacactga cctatatgcc gttcagggtg cctatagcgg 180
aggcaaagaa ggcaagagta aaatacaatg gctcagatcg atggttgga ggcctgatct 240
tatctncata cctggcgaaa ctggaagaac gtatgaagct aatggtgatg atgtanggta 300

taggcttggg gcaatttata cac

323

<210> 18798

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B6

<400> 18798

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atatggtacg tgagcccggc cgagcgagag cgaggtacag gcatggctgc tccgaagctc 120
gcgacgctgg cgctggccgt gtcctggcg gcgaccgtgg tggctaccgc ggccgcggtg 180
cacgcggcga tgtcgtgttc caccgtgtac agcacgctga tgccgtgcct gccgttcgtc 240
caaatgggcg gggccatgcc gtcccagccg tgct 274

<210> 18799

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B8

<400> 18799

caccaagcag agcaagccag tgaggtctct cagagcgtag ccagccagct acaatggcgg 60
tgagcgcgct agccaactat gtccaggtct acgtcatgct cccgctggat gtcactactg 120
tcgacaacac gttcgagaag gaggacgaga cgagggcgca gctgaagaag ctgacggagg 180
cgggcgccga cggggtcatg atcgacgtct ggtgggggct ggtggaaggg aaggagccgg 240
gagtctacga ctggagcgcc tacaggcagg tgttcaagct ggtgcaag 288

<210> 18800

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-B9

<400> 18800

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gggccctgca tataacaatac ccgagacagc tgtgtgtact atgactacag ggagaacaac 120
 ggattcatca ccgccaggcg tcaggtcaga gtgtgttaag aaaagatcgt ggcgaaatggc 180
 gactcacctg ctagagggag tgcgacggta gctgcaagcc tgcgcaggcg taggaccaca 240
 agcgttgctg ctgctggcag aggtgggtgcc agctcgatgc tccagttcta caccgatgaa 300
 gctgctggcc gcaaaatgtc accaaacact tttctgatca tgagcattgg gttcatagct 360
 gttgtcgcta tgctccatgt ttttgggaaa ctgtacc 397

<210> 18801

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-C12

<400> 18801

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 tgggtcaagcc taaggagagg aacgaaaggt acgttgatgc tgtcatgaca atccccaagg 120
 gaaccttggt ccccatgtgc ggcatagaacc ttgccttcga cagggatctc attggccctg 180
 ccatgtactt cggctctcatg ggtgatggcc agcccattgg tcgctacgac gacatgtggg 240
 ccgatgggtg tgtgaaggtc atctgtgacc acttgagcct gggagtcaag actggcttgc 300
 catacatctg gcacagcaag gctagcaacc ccttcgttaa cttgaagaag gaatacaagg 360
 gcatcttctg gcaggaggac atcatccnct tcttcagaa cgtgaccatt cccaaggatt 420
 gcaaca 426

<210> 18802

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C2

<400> 18802

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 ctgagcagat ctttccttgt ttcttcattc cggtagcaag gggaggggtc caagtgaaga 120

gaagagaagg cctgcgagcg atgggcatcg tcgacgtcgt ctccgagttc tgctccttgc 180
cgaggactcg ccggcatctc aagaagagga agcagttcca ggtatatata aaccatcttc 240
ttctattttct gttcggagtc tcttatccca gccagcccaa caactgaact gaacggg 297

<210> 18803
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C3

<400> 18803

aatgttctgc ctctaatagc cattgtctca gctggttctg tgagttctgc atgcactgct 60
ggaggtggac agttgtacat gtggggtaag atgaagaata caggcgatga ttggatgtac 120
ccgaaacctg tgatggattt aagtggttgg aacattcgct gcatggcttc tggtaacatg 180
caccacattg ttggtgctga tgattcttgc ataagctggg gtgtcgccca taatggagag 240
ct 242

<210> 18804
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C4

<400> 18804

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aaaggatgatg gagaaaaaag ttgtgaagac attgatgaat gcaaagagaa actttactgt 120
cagtgcagg gttgcagctg caagaatata tggggaagct acgagtgcag ctgtggtgat 180
gacaatatgc tatacatgag ggagcatgac acttgcacat gcaaagaggg aactgccact 240
actgttggct ggagcttcct ctgggttatt ttctttggac ttgtttttgc tgggggttga 300
gcatacgccg tgtacaaata caggctgag 329

<210> 18805
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C6

<400> 18805

gaacagattg gcttcatggc cttttccctg tatttatgtg tagtcaggtc caattccttt 60
ctgagtatga gcgcaagttt ttcgtagatg actcgcggtc acggcaatat ttgtgatatt 120
gtgtcatctg tggactatgg ttaaatttca gttatttggt ttctttcacc ttccagaact 180
gttagcaaga gcattctgga ccaggatgct cgaacacaac tggctgtatg tacatttggg 240
aatggtgaat aaagaagggg taataaactg ctgcgaaata aaa 283

<210> 18806

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-C8

<400> 18806

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tgtcttagtg aggggtgtacc ccggctgctg gcgtgcttga gtcacaatct gctccgccga 120
gagcctttga agctcgtcga tggggggccag tctcagagaa cctttgtata catcaaggat 180
gccatcgaaa ctgatgagct catgattgaa aatcctgctc tagccaatgg tcacatcttc 240
aatgctggga atcctgacaa tg 262

<210> 18807

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-018-Q1-K1-C9

<400> 18807

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gatggccaag tcgaagaacc acacggcgca taaccaatcg ttcaaggcgc acaagaacgg 120
catcaagaag cccaagcgcc accgccagac ctccaccaag gggatggacc cgaagtttct 180
gaggaacttg aggtactcaa ggaagggcaa caagaagagt ggcgaggctg agtccgagga 240
gtaagatgat ggtgattgag tttgtggcga caaatgcata tcttgtatcg ctaagagtct 300

tagctgtgaa cttagttctc acttctgtgt gactgtgac aaaggagac catcagttgg 360
taccgaagtg tattttatgt cttgttggtt acctggaatt taattaanac catcagttgt 420
at 422

<210> 18808
<211> 189
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-018-Q1-K1-D1
<400> 18808

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gcggaaagag gacagtatca catagggggg aagatgaaga atacaagcaa tgattggatt 120
taccgaaac ctatgatgga ttcaaattat tggaacattc actgcatggc ttctggtaac 180
atgcaccac 189

<210> 18809
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-018-Q1-K1-D10
<400> 18809

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aaatagttca aattgggtga acgaagagca tgacgtacag atggctgatg tggaagaaga 180
gcatggcgaa cagatggatg atgtcgaaga agagcatgat cttggaaatg atggtggtga 240
tgatgatctt ggggatgttt ttgattggtg ctaagttgat catggctgga tgatgtggaa 300
gaagaacctg atcttggaag tgaatggggg gaatatgac ctgggggaatg ttttgaatgg 360
ttctaggttg gacatggctg ggaataagac tcacggattt atgattatga ttctgctaaa 420
tggt 424

<210> 18810
<211> 208

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-A8

<400> 18810

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 agacggctac gagaaggacg aggccggcga caaggacaag gaccggccg tcagcctgta 120
 catgcactac ccgcggttcc cgttcgctgg aggtactac cagccgccg cctaccgctc 180
 gtctccgggg taccgtacg cctaccag 208

<210> 18811
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H12

<400> 18811

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 cggctcgccat ggcctcctcc tcttctgagg ttaggccgc gagcaggagg atcgttgatt 180
 acctcaacga cggcgaggag ctcgggggccc agggggcggc ggtggagacg ccgccgtggt 240
 cccctgctgc ggttgcggtg gggaaacagg ccaagtcagc gctgccagg ttcagggtggc 300
 cgcggtctgt caggctgcgg agagagggag gcggcgacga ggggaagccg ggggtcgtgg 360
 tggagaaggc cgacgacctc cacgt 385

<210> 18812
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H2

<400> 18812

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 aaaa 124

<210> 18813
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H3

<400> 18813

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 aagacgaccg ccggaagaa gcccaaggcg gagaagcggg tccccgctgg caagtccgcc 180
 ggcaaggagg gcggcgaggg caagcgtggc aagaagaagg gcaagaagag cgtggagacg 240
 tacaagatct acatcttcaa ggtgctgaag caggtgcacc cgacatcgg catctcctcc 300
 aaggccatgt ccatcatgaa ctcttcatc aacgacttct tcgagaagct ggccggcg 358

<210> 18814
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-H4

<400> 18814

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 aaaagcttca gtgcacttta gtcgcttta aaagctctaa agctttaatt taagggtggc 180
 ttataatggt tagaggtaac atgtaaatca tttgtttgga gccttaactt taaaacttaa 240
 agaggttaat tacccaaaaa gacccaggg ccaaataacc ttaaccccat tgccttgggt 300
 cccagcacgg atcaaaattt cttcaaacga gatgaagaac ggaatgggtc gtcgcttcac 360
 atatagcgcg ggtgtgcaa gattcaggac ggaaagttca gtttgtcacc gc 412

<210> 18815
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H5

<400> 18815

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acgggaacgg cggaagcaaa caactagaaa ttccccagcc cggttctttg cgtgcggttg 120
atctcgtcgg aggccccggc gcggttcccc aatccgcat cgaattcgat ggcgggcaac 180
gccgggaata agatccgcaa cgccaagctg gttcttcttg gagatgtggg cgctggcaaa 240
tctagcttgg ttcttcggtt tgtaaggga cagtttggtg aattccagga atcaacaatt 300
ggagcagcct tcttttccca gaccttagcg gtcaatgatg agactgttaa gttcgaaatc 360
tgggatactg ccgggcaaga gaggtatcat agcttggtt ccatgtacta taggggtgc 419

<210> 18816

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-H6

<400> 18816

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atatgggcgt gtttgatgg cagcctccca tgcaactgcc tgacaggcaa atgacctag 120
ccacaggcat aggaaatcga acgcccggca ttgttgcttg ngccaggcaa gaaactgata 180
aaacttaggc gtatagtgtt ggatgctcca tccactggac atacacttaa gcttctgtca 240
gcttctgatt ggattgaaat gttccttact ttgagcatta aggtgcttcg gtagaaggta 300
cgagcccgcc atcttttcga cctatacgtg cgagatgtcc gtgcttgagg tagctctatg 360
tcgagggaaa gacgtcgcct agagccatcc catctctgag catcnggtc tccccgatgt 420
ggat 424

<210> 18817

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H7

<400> 18817

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gggcctggcg gcgagggaga gatggggaag aaccaggcgt acaaggcgat gcagcgggcg 120
cggctgggggt cctcgctccg cgcgccgggc gccgccgacg cccccgaaga cggcatggaa 180
gaggaactga aaaggggtga gctggaggct gacaaagaca aaatgatgag agagtataga 240
gctcaactgg atgctgaaag agctcaaaag ctagcaaacg gaagaaatca ctcaagggtca 300
aactcaaaat catcatcttc caagaaagag aggaaggata aggacgc 347

<210> 18818

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-H8

<400> 18818

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ctcccagggg atgcgctgct cgatgcgcaa gaaggggttg caccgcggaga tctacgagga 180
cgcggaaggtg tactgcaacg gcgagctggt gctggtgacg gggggcacca agccggagta 240
cacggtggac gtgtgggtccg gaaaccaccc ctactatgtc ggcgacacct cggcgctcgt 300
ggtcatggac agccagatcg agaagttccg caagaagtgg ggccacatca aggagtactg 360
gcccgaggac cagtggaggg agatgcaccc agacggcgac ccggagttcg agcccgaggg 420
ggacaactg 429

<210> 18819

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-018-Q1-K1-A1

<400> 18819

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tgggtgtcttg gaactacttg atctttggat attcacagca tggccttgcg tgagcattga 120
ctatactggc taagagactt ggatggacac atgataccgg atgcac 166

<210> 18820
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A11

 <400> 18820

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 atcgacatga tgcattggcca ttatactgcg cgacgatcga gccttaaatgc aggtctgctg 120
 ccacattgaa gtctggatct gcctgtaact gaccttcctc gggtagcatt cgggcactat 180
 gtacacacgt ctgggccatt accaagtatg cggccgagac gcggtagcat gcattgcgcg 240
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 cttccttggt tagttgctgc tgctcctgct ggtgtagtac tgggtgatcc agtcctttta 360
 atttcttgat tagtttgctc ggctgaagaa atcaggacgc gtgcctggag ttgctgctca 420
 gctccatgta ctt 433

<210> 18821
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A12

 <400> 18821

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 gcaaggtgta tgacgtcact ccgtttatgg atgagcatcc tggtaggagac gaggttttgc 180
 tagctgtaac cgggaaagat gctacagctg atttcgaaga tattggccac agtgattccg 240
 caagggacat gatggagaag taccacatcg ggcagataga tgcttcaaca atcccagcaa 300
 agcgtgctca tgtgcagccc cagcaagcac ccagccatgc agacaaggat aatgaacctc 360
 ccatcaagat cctacagttc cttgtgcccc ttatgatcct gggccttgca ttggtatac 420
 ggagtagcac 430

<210> 18822
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-A2

 <400> 18822

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 agctgccgat tcccggccgc ggcaacatac tcactactag cgcacttccg tacgtcaata 120
 atgtcccgca cctaggggaac atcatcggtt gtgtgctcag cgcagacgtg ttcgcgcggt 180
 actgccggtt ccgggggttac aacgctatct acatatgcgg gacggacgag tatggcaccg 240
 ncaccgaaac gaatgccatg gaggagaagt gcacgcccaa ggagatctgc gataagtacc 300
 atgc 304

<210> 18823
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A3

 <400> 18823

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 actcggccga ctgcaattct ataatgcgga cgacgccact ggcaagggga cccgccttcg 120
 caaggagtgc cccaacacag agtgcggcgc gggcgtcttc atggccaacc acttcgaccg 180
 tcactact 188

<210> 18824
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A4

 <400> 18824

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 tgaggctctt gaccagatca ccgagcccaa gaggccttcg gacaagcccc tgcgtctgcc 120

cctccaggat gtgtacaaga ttggtggtat tggaactgta ccggttggtc gtgtggagac 180
 tgggtgtcatc aagcctggta tggtagtcac ctttgggtcca actggcctga ctactgaggt 240
 gaagtctgtt gagatgcacc atgaggcgct tcaggaggct cttccgggcg acaatgttgg 300
 cttcaacgtg aagaacgttg ctgtcaagga tctcaagcgt gggttcg 347

<210> 18825
 <211> 177
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-A5
 <400> 18825

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 gaggaacacg tcgcgagcct tatttctggt tccagctgca gatcccaatg catgagctgt 120
 agttccagcg tataagacta agaggtcacc agagcaggga caccgcttaa tcaggcg 177

<210> 18826
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-A6
 <400> 18826

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 ccggagagag tgtctggcct caagcctggc ctccatgggt ttcattgtgca tgcgcttggt 120
 gacaccacca atggctgcat gtcaactgga ccacactaca atcctgcgag caaggaacat 180
 ggagcaccag aagatgagaa ccgccatgcc ggtgatcttg gaaatgtgac 230

<210> 18827
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-A7
 <400> 18827

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ttgcgattga gcttgcaaaa actgccatca aaacctttgc tgaagtcata agcactatcg 120
 tgcattcttca ggaagaggaa gtaaacctaa ggaggcgggtg tgatgaaact cgtagggatc 180
 tgaaccgaaa gaaggcacag ttcgaggact ggcatcaaaa gtacttggag agacagacag 240
 cagaaactca aaacatagat cctgtcgagg ataggaaacg caccttcgag gaacta 296

<210> 18828
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-H1
 <400> 18828

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 cattggaggc gtgtcttcac atctctttgc tgtgttccag ggactcctca aggtcatagc 180
 tgggtgtagac acgagcttca ctgtgacatc caaggggtgga gacgacgagg agttctcaga 240
 gctgtacaca ttcaaagga cgacccttct gatacctcgc acaaccctgc tcctactgaa 300
 cttcattgga gtggtagctg gcatcttcaa tgcatcaac aacggatatg aatcatgggg 360
 cccctgttc ggaaagctct tctttgcatt ttgggtgata gtccatcttt accc 414

<210> 18829
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F2
 <400> 18829

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 gtttaccgcg ccgtcgctcc gtccaccgcg cgccgggcgc tcgccacggc ggaggtgccc 120
 gccgaggccg tcgaggactc cacgttcgtc gaggcctgga aaaaggctga ccccaacatc 180
 gagccccag cgacgcccct ctgcctcatg cagacgcgcc cgcccacgcc agctaccatg 240
 cctaccaagc tcaccgtcga cttgggtcta ccctacaagt ccgagatcgc caacaaggag 300
 gttgacatgg taattgtacc aactacaact ggtcagatgg 340

<210> 18830
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-F3

 <400> 18830

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 tcttttatca aatgatattg cacaaaaaag acttgaatt tggagtacat ctcagcctaa 120
 cggacttggt gtcctgatg caagtttaca tccagtcaaa tcaacattgg atgtgctaga 180
 gttgatggaa attgggcaaa caaatagagc agttggatcg acagctctga atgaaaggag 240
 cagtcgatct cacagcattc taactgtgca tgttagaggg gtggatttga agaatgggtc 300
 tacttccaga ggatgtctac atctgattga tcttgctggg agtgaaagag ttgagcgatc 360
 tgaagcaatt ggagatagat taaaagaagc acagtatatt aacaaattcc tctc 414

<210> 18831
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-F4

 <400> 18831

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 gatcttatcc gtggagccaa gacccttgat cttatcagga gcagcttccc ctctgggaag 180
 tacctcttcg ctggtgttgt ggatggacgc aacatttggg ctgatgatct tgctgcatct 240
 cttagcactc ttcagtctct tgaggccgtt gctggcaagg acaaacttgt ggtgtcaacc 300
 tcctgctcac tgatgcacac cgcgcttgat cttgtaaatg agactaagct ggatgatgag 360
 attaagtcatt ggcttgcatc tgctgcccaa aaggttgctg aggttaaatgc ccttgccaag 420
 gctttggca 429

<210> 18832
 <211> 420

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F5
 <400> 18832
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 tgattcggtta attgaatgcg ctactattgc tgacaagtgt gcaaagggtg gtgcagtcgg 120
 gataaattgc acacctccaa gatttattca tggactgata ctctccattc gaaagggtcac 180
 agacaagcct attctgatat atcccaacag tggtgaaaga tatgatgggtg aaaaaaagga 240
 gtgggtggaa tccactgggtg tgtcagatgg tgattttggt tcgtacgtaa atgaatgggtg 300
 caaagatggg gctgcgctta tcgggggctg ctgcaggaca actccaaaca ctatcagggc 360
 catacacaga actcttaacc aaggctgcc aagcatcag ttacctgtaa gctgtaacat 420

<210> 18833
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F6
 <400> 18833
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 ggggtcgatta tccaaagagg cctgcagacc tgaactatat atgcattctt cacgaagatt 120
 acgtgataca actaatgagg actgaattgg acctacgtgt gctcactggg ggaatctagg 180
 ctgttacggg tggacttaa aggcctacat aacgtactac ataggctatt gcatactata 240
 tgcaatacga tgcaatatag gaggcctctt gattaaacct tgttggcttc aacgtggaca 300
 atcggttctat aagagacctg cttacttact ctttcat 337

<210> 18834
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F7
 <400> 18834
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cgttgccggt gggaggaaca agaagaccaa gcgcacagcg ccgaagtccg acgatgttta 120
 tctcaagctc cttgtcaagc tctaccgttt cttggtcagg aggaccaaga gcaacttcaa 180
 tgctgtcatt ctcaagagge tcttcatgag caaaaccaat cgcccaccaa tctccatgcg 240
 ccgccttgtc aagttcatgg aaggaaagga gaagaacatt gctgtgattg ttggcacagt 300
 cacagatgac aagaggatcc aagaggttcc agcaatgaag gttactgccc tgaggttcac 360
 cgagacggca agggccagga ttgtcaatgc tggtagggag tgccttacat ttg 413

<210> 18835

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F8

<400> 18835

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 catacattca tatcaacata ataaatccta taatagatcc taattttctca cacacataaa 120
 acacttcaat ctacaactct taatcaaact aacactctat ctcacatcaa tctaac 176

<210> 18836

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F9

<400> 18836

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 cgtcaacttc gggcagtacc cgtacgccgg gtacctcccg aaccgcccgt ccgtcagccg 120
 gaagccgatg ccggcgccgg gcagcgacga gtacgcggag ctggagcgca agccggagaa 180
 ggtgttcgtg cgcaccatca ccagccagtt ccaggccctc gtcggcatct cgctgctgga 240
 gatcctgtcc agccactcct ccgacgaggt gtacctcggc cagcgcgaca ccaaggagtg 300
 gacgtcggac gccaaaggcg aggaggcggt caagcggttc ggcgcgcggc tgaccgagat 360
 cgagaaacgc gtcgtcacca tgaacgc 387

<210> 18837
 <211> 339
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-G11

<400> 18837

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 gatcctgatg ttttcaccta caatactgtt atcaactgcc tcagtaaaaa tggagagctt 120
 gatgaggcca aggggaattgt aaatcagatg gtggatgggg ttgtttgcct gacaccacaa 180
 cgttcaacac tctcattgnt gctctgtgct cacagaatcg acttgaggaa gcattggacc 240
 ttgcacgtga gctaactgtg aanggactnt ctncagatgt ctatactttc aatattttga 300
 taaatgccct ttgcaaggta ngagatcctc atcttggca 339

<210> 18838
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-G12

<400> 18838

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 gtcgcccgtg ctcttcggcc cggcggtgcy ctctcgccc tacctcgccg acgcgtccg 120
 gcaggactgc caggcgggct acctcgtact tcagggtcaag gtcgacggcc gcgtgcggtg 180
 gaaggtcggc agctggatct ccggccacta ccacctcttc gtcacctgcc ccgcgttcct 240
 cgtcaccgnc ggcgggcaacg gcgcccccg cgctttcggg ttcagggttc agaccaccac 300
 gtactgtcac gtcgaggttt aattaggagc gagaggaagc agagaccatg gctacctctc 360
 tagctgctgc tcttgccgtt gcctgggtgtg gcaataactc tgtctatctc tctctctctc 420
 tct 423

<210> 18839
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G2

<400> 18839

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tgtgaacaac attccttgag tgagcttggc aaacttcctt gacctatcaa agattgtatt 180
gagagagtgt gacaatgaat tgtcaagaaa tttcatgaaa atactaagat ccctgcgcga 240
gaaggatcct tcctatcacc agctatgccg tgtgggtgca caggggtgaac agccaagaga 300
aagctatctg cttctatcta accttggtga ggaccagatg gctgggacaa gtagttacgt 360
tgattggata cagcaaattc accgtcaaac gcaaagctaa tgacgaagaa ccaacaggaa 420
gcgatgcttg gaat 434

<210> 18840

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G3

<400> 18840

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tccatgaaga tgtgccagaa gaagtccttg ctttggacaa aagagttgag tgtaactcca 120
ggattgccgt tgcactttca ttaatggatg agtgcttctt tccgattatt gaccagagaa 180
ctggcatcaa cttgatacga aatgttgctg atagctgtgg atcaaatttt gcccggttgg 240
atttccgtgg attctatata ttatttttag aacgtggaga tgaaataata gctgcagcat 300
ctgtccgaat acatggaacc aagttagctg acatgcctgt cattggtacc cggaatatgt 360
ataggcgaca agggatgtgc cgccgacttg gagattgaat ccaaattgat ctcagctctc 420
tcaatgttga gaagttgatc att 443

<210> 18841

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G4

<400> 18841

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gctgagagca agggatggca gcctcatggt cagtgtgtgc ggcagtcctc gtcgatgcac 120
aagtggcttc tgccgcgccc gtcacagagc caacgttcac tctgggcgcc tatgaactac 180
agattccgct ctgatgatgc ta 202

<210> 18842

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G5

<400> 18842

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ggtgaattgg gaggcgtgca acctcttctt gggacagctg ggcagttcgg cggcatgcag 120
caggcactgc aaccacaagt taaccacatg ggagttccac aaaggcagcc aatgtacagc 180
aaccagccag gggttgtggt ggcgccaaca cagatgcagg caggcttggg gaaccagcag 240
ttgggttcga catccatgat gggcatgcct ccacagatgt atggcggcgg atcgcaggca 300
gccatgatgt acccgcaaca aatgccaatg gcgccgcagc aaccgatgta t 351

<210> 18843

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-G7

<400> 18843

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caaatcactt ctgccacacc tgtcacagat ccaacgttca ctttacgcgc ctaagatcta 180
ctaattaccc tatgatgatg ctaacgacgt agtacattat caaacaatct caccacaaaa 240
cttagctaaa 250

<210> 18844
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-G8

 <400> 18844

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 cgtgttccac cgtgtacagc acgctgatgc cgtgcctgcc gttcgtccag atgggcgggg 240
 ccatgccgtc ccagccgtgc tgcggcggca tccgcagcct gctgcagcag gccacaaca 300
 ccctcgaccg cgcaccatc tgcggctgcc tcaagaacgt cgccaacggc gccaacggga 360
 gcggcaccta catca 375

<210> 18845
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-G9

 <400> 18845

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 tcacagcaac atcaaagttt tgcattccca gactcggcc agtccatgca gccaacaggc 180
 ctgaatcctt ttgaagaatg gccgcagcaa caggaaaact gtggcggtgt tgatgactac 240
 ctgatggaga tcaggatgag gagccatgag attctcgaaa acgaagaaat gcagcagatg 300
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 ctctgtacat gccttgaact tcacaaaaat tgagctacga ggatgaccgn acccgtgcac 420
 ctgggaaag 429

<210> 18846
 <211> 308
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F12

<400> 18846

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ccgtccgcct ggccctgcta atctacaaaa ctcatgcccg ccatcatcaa tatcgtctat 180

tacactcatg acaattacac actctacacc tcattcgaca ttcacaatga ctccgactta 240

caccccaact gtcgactcat ttgggaaaca ggatttcaca gtcctgcacc tactcaactg 300

tcctcatt 308

<210> 18847

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D8

<400> 18847

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acaccttcac gaggaagtgt atgacgggaa gcccggaag gacggccggc tggcggtcgg 120

accggtgttc cggagcgttc tggccaagga tgggttcccg cagcttgagc ctgacatgaa 180

gacatcatgg gacgtgttca gggtagcagc agtcaagtat gccgacaacc ggatgctcgg 240

atggcgctcg ttcaaagatg gagtgccagg gccctacttg tggaaatcat acaaggagat 300

ctacgacgag gtgctgcaag caggctctgc gttgcagaag ctgggagtgc agccagggttc 360

ccgggtgggg atctacggag cgaactgtcc tcagtggata atggcaatgc 410

<210> 18848

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D9

<400> 18848

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gggcgagaag cagggcgcca ggaagacggt ggtgtaccac ctggcctcga gctcggacgc 120
caggggctg gcgctgggca acgccggcga ggccgagttc aggaaggaga acgcgacggg 180
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gacgtcgctc gtcgtgttcc agaaggttga ctgcgaggtc gccaaatccg acgacaagta 360
ctgctagaga tgatgatggg ttgcaaatg tcattgattt ggagagatga tgtgttgggt 420
tttgctcatg catgt 435

<210> 18849

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E1

<400> 18849

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ccgctccgat ccgctagcga gcgagcagcg cgatggcttg cctcaccgtg tccacgaaga 120
ccgcggcggc cggcggcaac aagcagcgcg agggcgcgga ggtcatcacg ggcgcggagg 180
cctgcttcgc gactccaag cagatgctgc aggcgtggg cttcccgggc ggcgtgatgc 240
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agaaggcccc ctacgagcac tacttccgcy gcacgggcac gcgggtgcgc tacgacgccg 360
aggtcaccgc gtacgtggag gacggccgga tgaagcgcat gaccgggggtg cgcaacaagc 420
aggtcatgct ctgg 434

<210> 18850

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E10

<400> 18850

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agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120

aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
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 aagcacaagc agcacctcgg cgaggccggc gccatcgccg cgggcgcctt cgcactctac 300
 gagaagcacg aggcgaagaa ggaccccag cagcgcaca ggcacaagat cacggaagag 360
 gtcgctgccg cggcggccgt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
 aag 423

<210> 18851
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E2

<400> 18851

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 gtctagatat atagcgctac tcgaatgtat gtggaatgct accgtataac gcacatttgg 180
 gtgcaatgac tgttgcattg ctgcatgaat gatatcgctg gtacataata cagaaatac 239

<210> 18852
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E3

<400> 18852

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 ctgaggcctc taagctaccg aggtgcagat gttttcgtgc ttgcattctc acttgtgagc 180
 cgagctagct atgagaatat catgaagaag tggataccag agcttcaaca ttatgcacct 240
 ggggtgcccc ttgttttggc aggcacaaaa ttggatcttc gtgaagacaa gcactacttg 300
 atggaccatc ctggattggg gcctgttacc actgcacagg gggaggaact tcgtagacaa 360
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<210> 18853
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E4

<400> 18853

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 agcgaaagca gcatgaagca aagcaatgga gaaccctgcg agtgtgctag ctctaccagc 180
 gcagttcacc aaactcacct tcggaaacct gtacatacgc cgggccgggc cgggcagcag 240
 ggagataacc gaggaaggca cgtgcgacct gtacaggata tacgtgagta acttccacgt 300
 gtacgactgt cgtggccccg acgccagcct tgtagccgc gtacaaggga tcaccagcga 360
 aatccgg 367

<210> 18854
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-E5

<400> 18854

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 gatgcgctcc cacgtgctgg agatcgccag cggcgccgac atcgtcgacg ccatcgcggg 180
 cttctcccgc cgccgccagc gcggagtctc cgtcctcagc ggcacgggcg cggtcaccaa 240
 cgtcacgctg cgggagcccg cgggggcccg cggggcagcg gccgtcgcg tgcgcgggcg 300
 gttcgagata ctgtccatgt ccggggcttt cctcccggcg ccggcgccgc cgggggccac 360
 ggngctcacc gtgtacctgg cnggggggca ggggcaggtg gtggcgggga gcgtcatggg 420
 gg 422

<210> 18855
 <211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E6

 <400> 18855

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 gatggcacca ctgtgaattt gggcctttgg gataccgctg ggcaggaaga ttacaaccgc 120
 ctgaggcctc taagctaccg aggtgcagat gttttcgtgc ttgcattctc acttgtgagc 180
 cgagctagct atgagaatat catgaagaag tggataccag agcttcaaca ttatgcacct 240
 ggggtgcccc ttgttttggc aggcacaaaa ttggatcttc gtgaagacaa gcactacttg 300
 atggaccatc ctggattggg gctgttacc actgcacagg gggaggaact tcgtagacaa 360
 attggtgcta tgtattacat tgaatgcagc tcaaagacac agcagaatgt caaagctgtg 420
 ttcgatgct 429

<210> 18856
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E7

 <400> 18856

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 tgttgaaatg aacgaacaca cggatatccat atcaccattg gcacacaatg acatagtgtg 180
 agtcatgttc ttatgatgta acctaccgat gtctcgttgt aactatggac agagaaagg 240
 ccaagttcaa gcatggcccc atatccaaag gatgaacagc caggccctgc agatacatgg 300
 tcattgttgg ttacctgcaa cactatactg agagctatgg atatgttgaa cgtgtgtaca 360
 gctgtgagaa catttatacc gaggcattgct gc 392

<210> 18857
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-E8

<400> 18857

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tcttatcact cgccatggct ccctccaccg atccccattc gctcgacaat tacaacctac 120
tcacgcatct cttctaccac tccacatact tctatccctc taaaatactc actcccaaca 180
tcaactacct atcaacacat ctttaactaa ttcaatacca caccttcaac attattaaca 240
tccctaccaa tctcactcac aacttacaac tccctacca ttcctaaaac accaactact 300
agatttacat tccaatatta ccacctacaa ctactc 336

<210> 18858

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-E9

<400> 18858

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gcggcggttg tagaggagaa gaaggaagaa gagaagaagg aagaggagga taagccggct 180
gccgaagagg cggcgccgcc agcagaagca gcagctgctg ctgaggagaa gtgatcctgt 240
tgacggatcg agcatgcaaa gctctccctc ctcgctccct tgcttgcttg cttgcttgct 300
gctggtaa at taaattaagt tgccgtgata ctttaagcgt gccgcacgga gtgaaaagtt 360
attaagtaaa agcagacaaa cacttggcat gcatggacat taatttggtta ttctttgtac 420
cgtcgctcgc tcg 433

<210> 18859

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-F1

<400> 18859

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tttgtcagtt ttacatgcct tcttgcttaa cactttacat taaaacacct ttaataactca 120

tattattaat tacacaaaga ctatctatcc atatctaaaa tgtaacaatt ttccaacccat 180
 ttttaacatta tatactactt ctaatactta ctcccaaatt aataccaata ttatcactga 240
 tacactatcc acattaacat actaacactt atccaatctt atcgctatac actctattca 300
 cattacatct taatactcat ttcaaacaca ttcaaattct acacttat 348

<210> 18860
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-F10
 <400> 18860

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 ggaccctggg cagcagccat tcagtttcag cattgggtcag ggttcagtga tcaaaggatg 180
 ggacgagggg gttatgacca tgcaagtggg tgaagttgct cgtatccagt gcacgcctga 240
 ttatgcttat ggagccggcg gggtcccagc ctggggaatt caaccaaact cagtgccttg 300
 gttcgagatt gaagtcctca gtgccagta attcgcatct gtcagctatg gaaacgttgg 360
 ccatgcttct caagtaatga aataattccg ttgtcacctc atgtacata cagcagattg 420
 gtgttacgag ttaaa 435

<210> 18861
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-F11
 <400> 18861

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 agccggtatc caggtcggaa acgcgtgctg ggagctttac tgctcgagc atggcattca 180
 ggctgatggt cagatgcccc gtgacaagac cattgggggt ggtgatgatg ctttcaacac 240

cttcttcagt gagactggtg ctgggaagca cgtccctcgt gctgtttttg ttgaccttga 300
 accaactgtc atcgatgagg tgaagactgg cacctaccgn cagctctttc accctgagca 360
 gcttatcagt ggcaaagaag atgcagccaa caacttcgcc cgtgggtcact aca 413

<210> 18862
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-D7
 <400> 18862

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 ccgcaggcta ggagccaccg cagacggctt ctccccgctg cgcgcctcgc tgcgttcagg 120
 cgcgaccggc tgagcactgc ccgcgcggcc gtcgcagggc caccggaggt ggacgaggac 180
 gattccatga gtatcgacaa cttgcatcgt ttcttcgacc tcaacgtcgg aaagtgggac 240
 ggctcattct accaattcga cgcgcacggg agggttcttc aggagattag cacgcggctg 300
 tccgtgagca cgtacgggga ggacaacctn atcagccttc ttcaat 346

<210> 18863
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-017-Q1-K1-C12
 <400> 18863

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 tcgttcttga ggagcaggag ggcgatggag cggcggcgca ggctcgcgag taccgcggcg 180
 ccggcgaggt gcagcaagat gtacgttccc ggctttgggg agggttcacc ggagcggaag 240
 gcggcgatcc accttcagca cttctttaac tacatcgctg tcagcattgt cctagcacag 300
 cttgagagtt acaataggga agcgtacatg gagttgaagg agttcatcag ccgcaccttc 360
 ctgaatgacg ccgagatctt ctgcgaaaaa ctgatgcgcg agtctccaag gctcaaggga 420
 ctagcct 427

<210> 18864
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C3

<400> 18864

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 gcaaggacga cgtggtccag agcggcgcg gcgcggggga gttcgccgcc aaggactaca 180
 cggacccgcc gccggcgccg ctggtggacg cggcgagact gggttcgtgg tcgctgtacc 240
 gcgcggtgat cgcggagtgc atcgcgacgc tgctgttcct gtacgtgacg gtggcgacgg 300
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 gcggcggcgt gggcgtgctg ggcacgcgt 390

<210> 18865
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C4

<400> 18865

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 cgcagcaggg cgggtggggg agatgttcct ctgggactgg ttctacgggg tgctggcctc 180
 cctcggcctg tggcagaagg aggccaaagat cctcttctt ggctcgaca acgccggcaa 240
 gaccacgctg ctccacatgc tcaaggacga gcggttggtg cagcaccagc cgacgcagca 300
 cccgacgtcg gaggagctca gcatcggcaa gatcaagttc aaggcgttcg acctcggcgg 360
 ccaccagatc gcgcgccgcg tgtggaagga ttactacgca aaggttgatg ctgtagta 418

<210> 18866
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-C5

<400> 18866

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gtgctcccga tcggtctgctt ccccatctac ctcacctctt acggcacctc caacgccgcc 120
gactacgacc gcgacggctg cctcagcggc tacaacggcc tctcctccta ccacaacgcg 180
ctgctgcggc ggagcctgtc cggcctgcgg aggacgtacc cgcacgcccg gatcatgtac 240
gccgacttct acaccaggt caccacatg atccggggcc ctcacaactt cgggctcaag 300
tacggcctca aggtctgctg cggcgccggc gggcagggcc agtacggcta caacaacaag 360
gcgcggtgcg gcatggccgg ngccagcggc tgcgccgacc cgggcaacta cctcatct 418

<210> 18867
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C7

<400> 18867

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ggcagtaagt ctagcagtgc tttgtattat gtaaataggc atttcaaagt tattaattgc 120
tgtcattgca ttatagtatt tggtttgggt gaaaaattta gtcttatctt tgtcagtaga 180
tttcaagttt tggtcgtctt tccaatgttg tatagcattg tgaaaccaga tgggtggcatt 240
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attgaagtac aaacagatgg gatgattatc cttctttatg ttaataaatc tgtatagaaa 360
caaaatttgt cattcaataa tcaatactat tctcagaatt acattttctgt actacaacaa 420
ttatt 425

<210> 18868
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C8

<400> 18868

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gtgaagaata gatagattct ttacatgatg tattaaaata tataactga aatacagggtt 120
ggtctatctc tattccatgg caaatttctt cttgaaactt ttcagtaaac atcaagtttc 180
atgcgagac gtgtctggat gtacaacata gactggttcc tcttcaatat tagtttgtgt 240
ttgcataaaa aaaaaaatc atcgagaccc tgatgttact gtacat 286

<210> 18869

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C9

<400> 18869

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acgtggaacg gtgtgtggat gattcggcga tgctcatcgt gacatacgag ggcgagcaca 180
accacaccgg aatgccagct cagtcagcag cagcagcagc agcacagggtg tagccgtgta 240
gtcgtagaga actcatcatc agttcatcac tgcacccccg cctccccctc cttgaggacg 300
aagtggcacc accaacaatgg cctctgttgg tcaccagggtc gtcgagatgt ctggctcctgc 360
ttgcgccac aagatctgta acgagaatgg aatgtgggtg tacacaagac tttctaatacc 420
atttgtgggg gcagctggct gtcgctcaag attatt 456

<210> 18870

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D1

<400> 18870

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gcggccggcg gcaacaagca gcgcgagggc gcggaggtca tcacggggcg ggaggcctgc 180

ttcgcgcact ccaagcagat gctgcaggcg ctgggcttcc cgggcggcgt gatgccgctg 240
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 accgcgtacg tggaggacgg ccggatgaag cgcgtgaccg ggggtgcgcaa caagcaggtc 420
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<210> 18871

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-D11

<400> 18871

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 ccgggctaac gagggagtcc tcgcccttcg agtccccctc tggaaagtac ggcctcgacg 180
 gagagaaggc gtgcgccgag ctctgagct tttccgattc cagtggctct ccacaggtga 240
 ccatttttgt tctgccagac tataagccac ctcttgacgc gtgtgttgta aatgggggtct 300
 tggaactgat ttcttctgaa gctacctnca ctgagcgaac tctaattgtc ccatacatca 360
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<210> 18872

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-D12

<400> 18872

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 ccctatcctn ccagtcgcc accactccac caccctctcc ccggctccgc tgcgaccacc 120
 gcacccgcga acttggcggg ccgctcggcg ctgcacacca agccggggat ggccgncgcg 180

cttgcgagct cgccgcttgt tcacctaact acctnccgcc tncgnctncc caggccccag 240
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aaggtcgggt ggagagccct gagggcggc gaccggcttc gatgcttctc caacgacggg 360
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<210> 18873

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D2

<400> 18873

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gaagcagacg gcgaggaagt cgaccggcgg caaggcgccg cggaagcagc tggccaccaa 120
ggcggcgcgga aagtcggccc cggccaccgg cggcgtgaag aagccgcaca ggtttcgccc 180
cggcaccgtc gcgctccgag agatccgcaa gtaccagaag agcacggagc tgctcatccg 240
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gttcagctcc tccgcccgtc cgcgctgca tgaggccgtc gaggcgtacc tgggtgggtct 360
cttcgaggac accaacctct gcgccatcca tgccaagagg gtcaccatca tgccta 416

<210> 18874

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D3

<400> 18874

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aggctgatgg cattgtggat tccttgaaga agcaggttgg ccctgcgtcc aaggagatca 120
agtcagcaga aggtgtggcc gccattttg atgacaagaa gatctatatc gttggaatct 180
tcaaagaatt cagtggcact gaatttaca acttcatgga gcttgctgag aagctgaggt 240
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tgagggggcc attgatcagg ctgctgaagc cttttgatga gcttggtgtt gacagcaagg 360

attttgatgt tgctgctctg gaaaaagtta ttgatgc

397

<210> 18875
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D4

<400> 18875

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gcgcgagtac tcgcgctctg ccaacctgaa gaggcctccc gatctctccg gcatgactga 180
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cgacttcgat gtcaagcagg gtggcgaata cctcaacagt atctgctggg gtcggaacat 360
ctacaccttc gaccacacag aggagtcgcc cgttgggtccg atgagattta ccaacaga 418

<210> 18876
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D5

<400> 18876

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cattcgctgc atggcttctg gtaacatgca ccacattggt ggtgctgatg attcttgcac 120
aagctggggg gtcgcccaga atggagagct tggttatggg cctaacgggc agaaatcatc 180
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atttggactg tctatgattg atgtggacag agcaaatggt ggtgaccgac ttggtcagct 300
ggaaatttat gatggcgaca ccggcgctga agtcgacaag gtggaggtgc aagtaaccaa 360
gaaggcatct gccagcacca actcacgtgc caacaagcgc aagaaaacca 410

<210> 18877
<211> 365
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-D6

<400> 18877

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cgacgcccga cggcaacaag cagcgcgagt actcggacgt catcacggtc acagacgcct 180

gcttctctca ctccaagcag atgctgcacg cgctgggctt cccgggaggc gtgatgccgc 240

tacgggtggct ggaggactgc aactggatgc gcgagaccgc attcgcgtgg atgcggcata 300

aggccctcta cgagcactac ttccgctgca cgggcacgcg ggtgcgctac gactccgaag 360

tcacc 365

<210> 18878

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C10

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caactccact gagaagctgg cgccggccaa caacaactcg gcgcgggggt tcccgggtgt 180

ggacaaagtg aaggcggcgc tggaggacgc ctgccccggc gtcgtctctc gcgccgacat 240

cctcgccctc gccgcagaga tctcggtcga gctgtccgga ggaccaaagt gggcagtgtc 300

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<212> DNA

<213> Zea mays

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<400> 18879

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<210> 18880

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A5

<400> 18880

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 ccaccacagc agggacgagg agcagcccggt cggcgagtac gggactccg agaccgaggt 120
 ggtcaccgcc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 180
 gcacaagcag cacctcggcg aggcgggcgc catcgccgcc ggcgccttcg cactctacga 240
 gaagtgaggt gcgcaccaga tccggcatgt tcctagagac gaagcatgat gaagtagtaa 300
 cgatgataga ggagaggata tct 323

<210> 18881

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A6

<400> 18881

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 taattgcaa gagctttgag cgtatccaca gaagcaactt ggtggggatg ggaatcattc 120
 ctctgtgctt caaagctggt gaggatgctg attcgcttgg cctcactgga catgagcggg 180
 acagcatcga tctccctacc aacctcagt agatccgtcc cggccaggat gtgactgtta 240
 ctaccgacaa tgggaaatct ttaacttgca tcgttcgctt tgacactgag gtgg 294

<210> 18882

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A8

<400> 18882

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gatgaattgg aggatcatca ttccctgaga tcgactcatc ttgctgattc ctggcaaaaa 120
accagaggtc ggagtgggtc gaatgactac agaagggcat cttttggatc agagagtgat 180
gatgagatca attcttatcc ggacgaggac attgacaaaa gtcttagaaa taatggaagc 240
cgtagtcagg gaagtaccaa cagagcttct gttaggcaca atgcacttgc ctacagtgat 300
gaatgacca ttttctgatg at 322

<210> 18883

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A9

<400> 18883

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aggattctgc ccagcagcgc ggcgatccgc ctcgatccgg aatggagcgc gtcttctcca 120
tggaggagat cccaacccc tactggggccc cgccgcaccc tcaaccggcg gccggcgggcg 180
ctgttgctgc accaggtgga gtaggaggag cgggggacgc ggcgggcgcg atgaaccggt 240
gcccattctga gtggtacttc gagaagttcc ttgaggaggc cgtgctcgac agtccgggtc 300
ccgtcgccgg cgtgggtaga agcagcggac aagctggagt tgacgcggcg gatagcaagc 360
cgctgggcgc cgcggcgccg gcgtccgtct cgagctcggg cgttgacccc gtcgagtaca 420
acgcgatgct c 431

<210> 18884

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B1

<400> 18884

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gttgcggtc aagattggaa caaccgggaa acagactgat gtaaggag

108

<210> 18885

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B10

<400> 18885

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ttgactgatg aaatggtcga gttagcacgg caactgaagg aaagtagcct aatgatgaac 120
caatccgtgc aggagacaga gaagatcctt gattctaccg agagggctgt cgagcacagc 180
ctggcaagcg cgggccacgc aacctcgca gccgcggagg tctactcact ggcttccaag 240
actacgtgct tccagtggct gctaattgtt gtgatggcct gcatgtttgt aatgggtggtt 300
ctgctcataa ggatcacttg atgaaggatg agggctgtag agggcactca aatcttttgt 360
cacccttgac tttgtttcat agggaattct ttgtgttgat ggtattttct cgaccgagtg 420
tctccaacag 430

<210> 18886

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-017-Q1-K1-B11

<400> 18886

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caaggcggtc cctctctaca tgaacgcgct cgagtacttc aagacccatc tcaagtacga 120
gaagaacccc aagatcaagg aggccatcac cgccaagtcc accgagtacc tccgccgcgc 180
cgaggagatc cgggccgtcc tcgacgaggc cggcgcgggg ccggggggcca acggaggtga 240
cgcagccgtc gccacgcgcc ccaagaccaa gggcaaggac ggcgacggng gcaacggaag 300
ggatgactcc gagcagtcca agctcaaggc ggggctcaac tctgccatca tcaccgagaa 360
gccaacgtc aagtggaacg acgtttgctg cctcgagagc gccaaagcaag ctctgc 416

<210> 18887
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-B12

<400> 18887

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ggtagcctaga cctagcagca gccacaccca caccgtacgt cggcatggct aggtgggtcgt  120
cgtcagctct ggtcgccgtc ctctgtgtcc tggccgcggc ggtggcgtgc tccgcggcgc  180
gccccgtccc cgcgcagcag cagcaggcgg tagaggacgt gaagcggccg gacacgctgc  240
acgaggggac ggtgctgac ccggggatgg ggcgctacga gatcggcagc cactacatcc  300
cggacatcgg cgggctggac cacagcatcc ccgccgncac ccacggccag ttcctccccg  360
gcgccgacga cacctgggtg cccaacccc                                389
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<210> 18888
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-B2

<400> 18888

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acaaccactg cggagcggga aattgtgcgt gacatcaagg aaaagcttgc atatgtcgcg  120
ctcgactacg aacaagaact cgagaccgcc aagagcagct catcagttga gaagagctat  180
gaactgcctg atggacaagt gatcacaata ggcgcagagc gcttcagatg cccggagggt  240
ctcttccagc catccttcat tggatatgaa gctccaggaa tccacgagac gacctacaac  300
tccatcatga agtgtgacgt tgatatcagg aaggacctgt atggcaacat tgcctcagt  360
gggtgatcca ccatgttccc tggcatcgnc gaccgcatga gcaaagagat cactgcgc   418
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<210> 18889
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B3

<400> 18889

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tggtccatga tcgatcatca tcgaccagag gactgaactg aagacgttgt caccatcgt 120
gcggccacag gaccccttct tagcaaggta aataaacggc cctgtccgag gcgcttcaag 180
cctagctctc gtaatgttat cgtcatgtat gtaaagtgtt cttatagtga gcctatcttg 240
ttgttccaat ccttacgggtg ttccattctg aggtgctgaa cctcggggca acaagaccga 300
agctggtagg gacttcaatt ggagaactgg ggttcaagca tgtagaattt taaaatcggc 360
tcatttgtct ggacaatggt cctgactagt aatgtgatcg c 401

<210> 18890

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B4

<400> 18890

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cactgcatca agttataaat agaagcctct catcaatcat tccaagaaat gtacataacg 120
cagttctaga acgattgctt tctctttcta gggcacaagt ctcagactat atcctgaatg 180
ataaaaatcc cattgggtcg ttgaaactac caagattgag aagtattctc gattaaagca 240
aaagtcttca tctgcagttc cctgcagagg atcttggtt ccagtaatac cctttacaac 300
caaatgttc ctcataaaca accttttctt tatttct 337

<210> 18891

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B5

<400> 18891

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gttgagttat ggatcacacg ggaacagaat gattgaagga agatctgggc accgtgttgg 120

gcggtttaag gaccggcttt tgacaatggt gatcaactgc gccgtcgccg gatcctgagg 180
ccatgactac tacttggacg tggatagctg cagagcggcg gtaccgctgg cgcacagca 240
gtacgtgaac ggtcggctcg tccatcttca gaccttgtag gtgttcgagg cgagcatgat 300
ggtcgtcaag at 312

<210> 18892
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-B6

<400> 18892

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gtctattcct acaacccttg gccttgatcc aactgttgca aactcagtgat atcaagttat 120
aaatagaagc ctccgatcaa tcattccaag aaatgtgcag aaggcagttc tagaaggatt 180
gttttctctt ggtagggcac aagtctcaga ctatattctg aatgagaaaa atcccattgg 240
gtcgttgaga ctagcaagat tgagaagtat tctcgatgaa ggcaaaagtc ttcagctgca 300
ggtcctctggc agaggatctt ggctttcagt aagacccttt acaaccagaa tgttcctcan 360
aaacaacctt ttcttatttc tttcagctta gttgatggga catga 405

<210> 18893
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B7

<400> 18893

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gcgcccagct tggcgggtcca tgatcggggg gatcgacagg aggacggagc tgaagccgct 120
gccagccagc ggccggccag aggcaccggcg gctgcaggtg gtgggcgtct ccgccgccgc 180
cggatccgga ggccgatgact actacttggc cgtggagagc ggtaacgccg ctgtgccgct 240
ggcgcataag ccgcactgga acgcgaagct cgtccgactt cgcaccttct cagtgttcga 300

ggtgagcatg atggccgccca agatcgcccta cgagaacgcc tgggtaca

347

<210> 18894

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B8

<400> 18894

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aaccttggga acaacctgta tgtgactggt ttgtcggctc gtgtaacgga tcgagatctg 120
gagaagcact tctccactga gggtgagggt attgatgcaa gcgttgtgta tgatccttgg 180
acaagggaat cacggggggt tggtttaggt accatggctg ctgataaaga ttcatatcgc 240
tgcatcatat atatggact 259

<210> 18895

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-B9

<400> 18895

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cccgccaggt acaatacccg agacagcggg gtgtacgagg acgagaggga gaacaacgga 120
ttcatcaccg ccaggcgtca ggtcagagtg tgttaagaaa agatgggtggc gaatggcgac 180
gcacctgcta gagggagtgc gacggtagct gcaagcctgc gcaggcgtag gaccacaagc 240
gttgctgctg ctggcagagg tgggtgccagc tcgatgctcc agttctacac cgatgaggct 300
gcggggccgca aaatgtcacc aaacactttt ctgatcatga gcattggggt catagctgtt 360
gtcgctatgc tccatgtttt tgggaaactg taccgcacct tcaactaggt tgggtactacc 420
ataaccaaga aaacag 436

<210> 18896

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-017-Q1-K1-A2

<400> 18896

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gggcctgttg tgaacatgtg gttaggggcc agacatctaa agccagggaa gaaagcgaac 120
cgcaagagaa gtaaaatgat aagacgtgtt gtagcctgca aggacgcggc aaatttatct 180
tgtttgagtg agcagctgac gtcaacatcg tccactgcat gctctgaaac cgtagaatgt 240
acctacagcc atcagaaacg gtcacatgct agtgcaaggt ccaaagatga cgcccagtc 300
ttngaaaaaac aggcagaagg tcgacggagc tcgtgtcggg gctggcacia gtgcaccttc 360
ttgcagtgcc ggcgttccaa agtctgatcc gaactctttc acagatccta aggttgtagc 420
gac 423

<210> 18897
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C1

<400> 18897

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tcgatggctg gcctgaccgt gtccacgaag accgcggcgg ccgtcggcaa caagcagcgc 120
gagggcgctg atgtcatcac gggcgcgag gctgtcttcg cgcaactcaa gcagatgctg 180
catgctctgg gcttaccggc cggcgtgatg ccgctgtgga ggctggaaga gtgcggctgg 240
gtacgcgaga ccgggttcgc gtggatgcag ctcaaagccc actacgagca ct 292

<210> 18898
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G12

<400> 18898

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caagtcactt gaatcaagga aacttgaatt agaaaatgag atagaagtgc taaggtccaa 180
aatagatgct ttaacagctg aactctctga tgaaaggcaa agtcatcagg acgacttagt 240
taaatacaga gatctcgagg agaagatgga aaggatatgag atggagagga gttcaatgct 300
tgtggatggg gaccagaca ccaagtcaaa gcaggataaa gagatagggg ctgcagcaga 360
gaaactggca gagtgccagg agaccatatt gattcttggc cgtcagctgc aagctatgcg 420
t 421

<210> 18899

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G2

<400> 18899

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cttcgcactc tacgagaagc acgaggcgaa gaaggacccc gagcacgcgc acaggcacia 120
gatcacggag gaggtcgctg ccgcggcggc cgtcggcgcc ggcggctacg tattccacga 180
gcaccacgag aagaagaagg accacaagga cgccgaggag gccagcggcg agaagaagca 240
ccaccacctc ttcggctgac cgtagtaccg gccggcgcgcc gaccgagcta gctagctccg 300
gcgcacacaa ccacacacct ggttaattct gtactgcatg cgtgtgtaat 350

<210> 18900

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G4

<400> 18900

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gttccttgac cttgcaattg ctctgcata gccaccttg ttgcaccaac gccacttttg 120
tagtacctcg gtttaatttg cattttcttt cagagttgtt tgtgggtttt gagttccatc 180
tcaagagagt tgagtttatt tatctttata ttgggtgaaa tgttcatatg ctttcctcag 240
cttggatgat ggt 253

<210> 18901
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G5

<400> 18901

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gccagccagt cgttcgtaa gaagagagcg agcgagcaag agagagagag agagggagaa   60
gggggaagat cagaacgaag agaggagat gagggggcaa acgcagacag cttccgcggg  120
gggccggtgg cgaggcgacg gcgctgcggc gtggtgttgg tgggtgggtgg cctggtcct  180
cctgcttggc catttaccga gctgcgcgcg cgcggggctg ctggaatcca acccgggcct  240
ggcctacaac ttctacgag                                         259
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<210> 18902
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G6

<400> 18902

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acaaagagaa gaaaatcctc tccattcggg ataggggtat tggatatgacc aaggaagatc  120
ttattaagaa ccttgaacg attgctaaat ctggcacttc aggaacagga gctgctcgag  180
tctcttgctg aagctgatac gagaaggcag gaaagagcta aaaagatgga agaaaagaaa  240
gtgtatctgc aactatacga agcaatggag gcgttgggtca agatcaatct ggagacgaac  300
aagatcatgg acttcatcaa gtttgacgtc ggcaacgtgg tcatggtgac tggcgggagg  360
aacaccgggc gtgtaggagt catcaagaac agggagaagc acaagggcag ctttga    416
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<210> 18903
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G8

<400> 18903

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gctgtgttct gcgcaccagt acttgatagt gagtttcaga atgaacctat aactatttcc 120
aacatcgaca agaaggatgg tgaaaatttt catgatatgt ataatgtgtg tggcaaggct 180
gtttcgtgtc ctttgttacc ttatgagcat cgatcatctga atacacagag aacggaatct 240
gcaggaaatt tgaaagtctg cacgcttcct gatcatcaaa ctgcaaataa attgacagaa 300
aagagtaatg gtgagctgct 320

<210> 18904
<211> 301
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-H1
<400> 18904

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ggcgacttcc gccaggccgg caagttcagg tccctggaca aggcgtgcat cagggacgcc 120
gcggacacgg tgcttgagag cgagtggcgg ctgtgcacgg cgggcgaagt gcggcagacc 180
aagaccctgc tggccgagct gcccatcgtg gcgtgcacgg tcgtcaccaa caccgtgctg 240
gcgcagctgc agacgttctc ggggcaaaag ggcaaggcca aggacacgag gctggcgccg 300
t 301

<210> 18905
<211> 326
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-H10
<400> 18905

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ctaggacacc cttgaatact aacatatata tgcaccata ttacaacaca ctaacatgct 120
ctctgcatac ttaccttaac ccaaagacat acatacagat atattagtca aattatattc 180
acaactttcc atgttcctac catgtacgtt gcaattcaag catgtctttc actctatgcc 240
attggactta ctactattat tgttctcgac tctggtgata gtgtgagtca cactgtaccc 300

atttattaaa gatattccct ttccca

326

<210> 18906

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H12

<400> 18906

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ttgaccagac gctcgtgcta gaaagattca tcgtttcctg atccaacctt ttcattgtcgc 120
ttaagatttc acaggtgctc cagggaaata tgttgagctg aaagaaagtg tcaagagttt 180
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<210> 18907

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H4

<400> 18907

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agtaccgggc cacgctcgag ttctactggg cgcccttccct cgtcgagtcc aactctgaca 180
acccaactt ccacagcatc aaggaacgga tcatcagtcc cgagaggatc gaggcgcacg 240
ccaagaactg gaaggacgtt gattacctca tcttcgacac ctacatctgg tggatgaaca 300
ccgtcgacat caaagtcagg agaccgaact cgaatgattg gtctgagaac gacgaggttc 360
ccaggattga agcgtatggt cgggtgttca agacggggtc tgattggctc aataacaaca 420
tc 422

<210> 18908

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H6

<400> 18908

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aggctgctca acttcatacct caccgtcgcc ggcctcgcta tggttggcta cgggatctac 180
ctgctcgctc agtggatgaa gatatccgaa gacggcatcg gcggggcatc gacggcgga 240
gtgctcgctc ccggccggcc gttgttgggg gctatcgctt tcggtgacag cttcctcgac 300
aatctaccca aagcatggtt tatttatttg gttattggta ttggcaccat cgtcttcttc 360
gtgtctctgg ttggctgca 379

<210> 18909

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H7

<400> 18909

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ggtccgtcaa gggaccataa aaaaggaggt tctaaattgg atgctaagct aattggacta 120
acctttctga ataatgtga tggccggata gaaaattgga tcaccaaag gtgatgtgtg 180
tggaattaat gga 193

<210> 18910

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H9

<400> 18910

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gagcgggtgg aggaggagcg cggcgggcgcg ggtcgcttgg cgcccgcca cggtttgcct 120
gtggctcgcg ctgcgcccg ccgcactgac gtcgcccag gctaagaagg acctgacgga 180
ggttaccac aaggtctact tcgacatcga gatcgacggc aagcccgcat gccggattgt 240
catggggctt tttgggaaga ctgttcctaa gacggcagag aacttccgag ctctttgcac 300

aggagagaaa ggggttggca agagtggcaa agccctccac tacaagggga ggaagttcca 360
cagaatcatc cccagcttca tgctccaagg aggtgacttc actctcgggg acgggagggg 420

<210> 18911
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A1

<400> 18911

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aaagcgaacc gcaagaaagt aaaatgataa gacgtgttgt agcctgcaag gacgcggcaa 180
atttatcttg tttgagttag cagctgacgt caacatcgtc cactgcatgc tctgaaaccg 240
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<210> 18912
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-A10

<400> 18912

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ccggcgccct cctcttccct gccattaacg tcaacgattc cgtcaccaag agcaagtgtg 180
acaacctgta tggttgccgc cactcgctcc ctgatggtct gatgagggcc actgacgtta 240
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ctgccctcaa gcaagctggg gcccggtgtca ttgtgaccga gatcgacccc atctgtgcc 360
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acatcttcgt 430

<210> 18913
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-A11

 <400> 18913

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actcgacgga gctgttcccc aagatcttcc ccgagcagta caagagcatc gagaccgtcg  180
agggcgacgg caagtcggcc ggcaccgtcc gcctcctcaa gtacaccgag gcggtgccga  240
tgctgacgtt cgccaaggag aagcttgaga cggcggacga cgagaacaag gtggtgtcgt  300
acagcgtggt ggacggcgag ctggcggact tctacaagaa cttcaagatc acgcttaaag  360
tgacttcggc caaagccgga ggcgaaggcg gcgccgtcgt cagctggg                    408
  
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<210> 18914
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-A12

 <400> 18914

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tcctgaatga gttccaaagc cagaggtctt agacatcttg tataaggaca cattatgttt  180
tcaccgtgct attgaacatc atgatggcat catgcatcaa acagaaatgt aagccccaga  240
cagtgttcat caaaggagat cctccagatt atcaaataca tgttgcatct gctgtcagct  300
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<210> 18915
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G11

<400> 18915

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ggtgccattc cgcccaccga tcgaccttga cgccaatctc ggtctcttgc aaaagcgta 120
cacgcggttg tttgacagga gaggacgaag atgacggatt gcctctctct ctacatcgt 180
gcagctcgcc atccaagtcg gcaacgcgag ctgggaactc tactgcctcg agcacagcat 240
gcagcctgat ggccaagagc ctggagataa caccgacaga catcacgatg atgccttcag 300
caccttcttc agccagactg gtgctgggaa gcacgttccc cgtgcaatct gagctgatct 360
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<210> 18916

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E5

<400> 18916

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ggatggattg cgtgttggaa tgggatcggg ctcaatttgt accaccaag aggtttgtgc 180
tgttgggaaga ggacaggcaa cagcagtgtg taaggtttca tcttatgcca aggatcacia 240
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<210> 18917

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E6

<400> 18917

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ttggcttgtg atggatgagg tcagagaaat gatccagaag aacaagtgac ttagcaccca 180
 tgttatgcaa tggccaatgg atattgtacc gtgttcaatg taaatagaga tatcagacga 240
 tctcttcata tactaagctg aaatcaaaca caaatagagc aaccatgttg gaaataacca 300
 accaaataat actgctccct actccctacg ttcaattctc tttgtatatg tatgttggaa 360
 caagatggat ttttatgcca gcacaaggaa acaaggagca cattcatatt cagttacgca 420
 acta 424

<210> 18918
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E8

<400> 18918

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 gggggccatc ggctgcgtcc ccgcgagagt ggcgctgcac agcctcgacg gcacctgcga 180
 cgccgagctg cagcgcgccg ccgagatgta caaccgcggg ctcatggcgc tgctggagga 240
 gctcaacgcg cgccacggcg gcggcgaccc cgtgttcgtc ggctcaaca tgcagcgcat 300
 ccacaacgac ttcctcgacg accccaaggc gtacggcttc cagaccgcca cctacgcgtg 360
 ctgcgggccag ggccgcttca acggcatggg gctctgcacc atggtgtcca gcctctgcgc 420
 cgaccgacgac acctacgtgt tctgggacgc 450

<210> 18919
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E9

<400> 18919

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 actgtatcgt ccgacgaagg tgcattggtg tggccatggg tcacggcagg gaacagagac 180

gagcagggtcg gcgctctccc ccagctcat tgatcctgtc ctcgctataa ggtagtcctg 240
 cggcggcctc cgaatttcac tcgatcgaac acgacatgaa gcggccacgc ggcgccagtc 300
 cccctctggc tgcgatgacc aatccgaacg atgatgggta cggcgtgggc tggatggaag 360
 cggacgcaga cgcggacgcg gactaggaga tgatggcgtg cggc 404

<210> 18920
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-016-Q1-K1-F1
 <400> 18920

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 tatttcaaaa tccagaattt cttcgccagc tgacatcgcc tgagactttg cagcaattac 180
 totttattca gcagtcttta ttaggacagc ttgggtcaaca tcaacctaac cagggtagag 240
 acaattcagg cagtgccaca ggtacgcctg gaaaccctag ccttgacacc ttgatgagca 300
 tgctcagtgg gct 313

<210> 18921
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-016-Q1-K1-F10
 <400> 18921

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 gcgccggaaa atgaggcaga gatctaagta ggcgcatctt gtgacgagga tggcgagctt 180
 ctctgcatc atggctgagg ctcgttggga tgatggcttc cctttgcaga cgtcctttgc 240
 tgtagacgta ggcgatgtaa accgtgcttt ttgattcatt ctagcatgtt ctgagactgg 300
 gtttatattg gaattcgagg ataattatat gatgctctaa gtt 343

<210> 18922

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-F11
 <400> 18922

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 gagtccaaag acaacggcgt gccgctgctg ggcttgtctc tgaaggacag aagccggcac 180
 agcgagttcg agatcttaga cttgctgcgc cgattcggat ggatcgtgcc aggctacacg 240
 aagccccccg acgcgcatca cgtgaccgtg ctccgactat tcatccgcga ggacttcagc 300
 cgcacactca cggagcgcct ggtgctagac atcgagaagg tgctgcacga gctagacgcg 360
 ctgcacgecc 370

<210> 18923
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-F12
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 cagctgctgc gatcctggat cggcacagcc ggttcttgat gtggaggag cggcggcgga 180
 cgctgctcct gctggtggcc ggcgcggcgc tgggactgat cggtgccacg ctccgcgagcg 240
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 acgtggctct cgcccagatg aggetcatcc tcattggagga cgccacggtc gagccgtccc 360
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<210> 18924
 <211> 444
 <212> DNA
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 <223> Clone ID: LIB3062-016-Q1-K1-F2

<400> 18924

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tgccagatcc ccaagtggct ttcgcctgcc gcgcaggacc ttctcaagag gatcctccaa 180

ccgaatccga tgaagaggat caacgtcgcg gggatcaggg agcacgagtg gttcaagaag 240

gactacgtgc ctgctgttcc gcacgatgat gacgaagacg tccttcctag tccagctccc 300

tcgataaaagg agccaatcga tgagccggcg caggacaagt gtactcctat caacgctttt 360

cagttgatcg ggatggcctc ttcccttgat ctttctgggt tcttcgaaga aaaggattca 420

gcgcaaagaa aggattcggg cact 444

<210> 18925

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F3

<400> 18925

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cctttaccag tacccaaata accttcagag tcgtggcttt ctgcgacttt gccatccgtg 120

acaaataggt cacctctgcc atcttttctt ggaattcaag tacactcaaa gaaacaggct 180

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agaattgc 248

<210> 18926

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F4

<400> 18926

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gaatcaagca cgaggagaga ccaagacacc gaaacggttc atcaccgaca ccatcaggag 180

tgatttcaac ggtaaatttc ttcaaagggtc catgaagtga cccttccgtc gttcacaatt 240
cagcctgaag ccctaatacg ttataagggtt ggcgtataac cgaagaatca ttattggggtt 300
gcggaatgaa acaagagggt aaccctatgc aaactactta ccaaagtttt gcttaacaat 360
gcatatcct 369

<210> 18927
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-F6
<400> 18927

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tacgccaaag cataggctca agactcgacc ctggtgcggt attttagcat ccccttttta 180
gtttcaatag tgtattgttg ttgtccctca agtgttgttt attatttact ttgtttgttg 240
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gtaat 305

<210> 18928
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-F7
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tccagcaggt atcaggatgc tgggcatcat cccggggatt ctgttgatca tccttgtggc 360
actgctcaca gagg 374

<210> 18929
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-G1

<400> 18929

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 gttctttgtt gaatttcgtg ggcctaacga aagcatttat caaggaggta tatggagggt 180
 tagagtagaa ctgccagatg cgtatcctta caaatcccca tcgattgggtt tcatcaataa 240
 gatatatcac ccaaagtgcg atgaaatgtc tggttcagtc tgtttggtatg tcatcaacca 300
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<210> 18930
 <211> 333
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-016-Q1-K1-G10

<400> 18930

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 tctaccacca ccacctctc caccttcatt accccaatt gaaagagcta ttgcaaattcc 180
 cattgctcca ccagaaaagc gatatagtcc ttcaccaaag acaagtagct ctacttctgc 240
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<210> 18931
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C3

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 gctacggccg ggtcaggcgc gcggcggcgc tgctgctgct gctgctctgc ctctgcctca 180
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 cggcggaagc aag 253

<210> 18932
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C5

<400> 18932

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 attgccagag gctgcatata cagaaatccg attttttgat ctctttgatg gttcaaaaca 180
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 tactactcgc cagccgatgt tgatgcaacc tcttgtaaaa gtaatcctgt agaaccgaac 300
 cgtgtagggg agtcccatag gtagttgggg gctgtccaaa aaccgacggg cttttcctct 360
 tccttgaaa 369

<210> 18933
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C7

<400> 18933

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 gtggcggcgc aaaggccggg ggctactcct ccggctctcc gccgtcggag ccgccgcacc 180
 tgcagggccca gccgccgag gagtaccggg acggcacgtt ccagggccct cggcatcctc 240
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accagaacca g

311

<210> 18934

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D10

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atcctccgtt tccgaaggca ttacataagg aaaccggatc tgttgttcgc ctaccactag 300
ctacgctggc tactgttctt caaaa 325

<210> 18935

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D12

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cttggccccg cgcagtcacc ctatgaaggt ggagttttca agcttgaact attcttgctt 180
gaggaatata caatggctgc cccaaaagtt agattttctga ccaaattta ccatcctaata 240
attgacaagc ttggtaggat atgcctcgac attcttaagg acaaatggag cccagctctt 300
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<210> 18936

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D2

<400> 18936

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atTTTTtGctg gacaaaaacg gtttccccac tttcgttagt ggcgttccac ctgatgcatt 180
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<210> 18937

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D4

<400> 18937

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attccgcttt tgaaatccat tacttggaaac caagattatg accaaataag gcctgggttt 240
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<210> 18938

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D5

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aatggaactg gcatgggtcaa ggctgggtttt gctggtgacg atgcgccaag ggctgttttc 180
ccaagcattg tcggacgccc ccgtcacact ggtgtgatgg ttggcatggg gcagaaggat 240
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<210> 18939
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-D6
<400> 18939

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gccttgaggt ggtgcctaac gcgcgagagg ttctggtagg gctctacgag cgcacgctca 180
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gggcaccgtc ttcagatctg ccaggaggag gaggactgga agcgcacgga ggaccgaatc 300
ggatgcgggc aggtcgagga gctcatcgag gaggccgagg acgagctcaa gctcatcgct 360
aaaatgattg aatgggatcc atgggggtgtt cccgatgact acgaatgtga agtgattgaa 420
gacgacaccc c 431

<210> 18940
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-016-Q1-K1-D7
<400> 18940

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atgctattgt ttttgaatca gaagttgata aagtttatct tgccgcaccc tctaaaattg 180
ccatcattga tcatgagagg aaaggacat ttgtcgtgac aaaagaaggc cttcctgatg 240
ctgttgtttg gaacccttgg gacagaaggg aaaagcaatg caagattttg gggaatccga 300
atacaagaac ctgccgtgtg tggaacctgc aacttggtgaa aagcctatta ctttgaaacc 360

tggggaaaaa tggaaa

376

<210> 18941

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D8

<400> 18941

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ccatccggtc ggcgctgatg acgacggcgt acaacgagta ccccggcggc ggcaacggca 120

tcctggacgt ggccacgggg cgcccgccca cgccgctgga cgtgggcgcc ggccacgtcg 180

accccgcgaa ggccgtcgac ccggggctgg tgtacgacat cgcggcggca gactacgtgg 240

actttctctg cgccaacaac tacgaggcgg cgcagatcgc ggggctcacc aagcagcacg 300

<210> 18942

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D9

<400> 18942

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cggcgagggg atcggcggct gaagagatgg aggagcggga gaagctcgcg tgcctggcca 120

agcttgccga gcaggcggag cggtagcact atatggtgga attcatgaag aatcttgcta 180

ggatggacgt ggatatgagt gctgaagaaa ggcatttggt ctcagctggt ttcaagaaca 240

ctattggagc acagagagca tcatggagaa tcatttggtc acatgaccaa aaggctcgag 300

ctgatcggca gactggtgtg atgatagatg cctataagaa gaaagt 346

<210> 18943

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E10

<400> 18943

cagcgcccca cccccagcca gctagtgggt ttctctcagc agcgcgcccg agcgtgtggt 60
 ccctgctaag ctctgcgcct cggtaggcaa ggaaaatcaa acagatcgta aatggccggt 120
 agcagcgcg agcagctcct ctccaggatc gccgcccgcg atggccacgg cgagaactcg 180
 tctacttcg acgggtggaa ggctacgac acgaaccctt tcgacctgcg ccacaaccgc 240
 gacagcgta tccagatggg actcgccgag aaccaactgt cgctggacct gatcgagcaa 300
 tggagcgtgg accacccgga ggcgtccatc tgcacggcgc atggcgcgcc gcagttcc 358

<210> 18944

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E11

<400> 18944

agaaaagcag ttcttcagct aggcaggatg gcacatgaag gaggagatcg ggggatagga 60
 ggattcataa ggagctcaag gatctgcaaa aggacctcc cacctagtgc agtgcaggtc 120
 ctgttggtga agacatgttc cactggctag caacaataat ggggccatct gatagcccat 180
 attctggtgg agctttccta gttacaatcc attttcctcc tgattatcct ttcaaaccac 240
 caaagggtggc atttcgcact aacgtgttcc atccaaacat caacagcaac gggagcattt 300
 gcctcgacat cttgaaggac cagtggagtc cggcactaac catctccaaa gtgctgctgt 360
 ccatctgttc cctgctgact gatccgaacc ccgacgaccc tttgggtcccc gagatagctc 420
 aca 423

<210> 18945

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E12

<400> 18945

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 ccaaggccgg cgtctcagc ggtcgcgctc gagtaccgcc tcgcgccgga gcacccgctc 120
 ccggacgcct acaaggactc atgggagggg ctcaagtggg tggacacca cgcctccgcc 180

gccacgggag gaggaccggc cgccgagccg tggctaacc cagcacggcg cttatcccg 240
 gtgttcctgg cgggggccag cgctggggcc accatcgcg acttcgtagc cgtacgtgcc 300
 ggcgagcaca agagcggagg cctcgggatg cggatcaagg gcctcctgat agtgcacccc 360
 tacttcagcg gctgcggaga catcggatac gaggggacga ctgggaatgc gcgca 415

<210> 18946

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E2

<400> 18946

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 gactataact gttcgtcgag cattaaaatt aaggacgaca agacaggcac aacctatact 120
 gtcgaatcac atgacatatc ctccggatgg aaattccact ggcacaagtc cctggttctg 180
 ttgttggtta caatggtgtg gagctattta tagtacgcta actctattgg acaacacgaa 240
 cacgcactta ccgaaattca ttgattcgt attcttttca caaaaaagaa tatctaaggt 300
 tttaacttgt gttctctgac cacggaaaac gatgaaaaca aaaacgttgt gtgccatac 359

<210> 18947

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E3

<400> 18947

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 ccgacctgag caccgacggg atccctacct atccggccgt caccctccc cctgcccctc 120
 ccgagttgga ttgttcgcgg aattggcgga ggggcagccg gatatgtcgt cgtcggttgg 180
 gggcggcagc gcggggcgcg gcggagtgga catggtcagc ctgctggaga aggccaagga 240
 gttggaccag ctaatgaatg aacaggacga aatcgttgcc gatatcaaca agattcac 298

<210> 18948

<211> 384

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C2

<400> 18948

gctgctagtg tgtcgtccct gatgaccacc acggaatcca taattgtaga gatccccgag 60
 gaagaggcac cggctccagc aatgggtggc atgggtggaa tggattacta agtgtcaagc 120
 acaccacga tacaacaaca tcaaagcaga gatgacgagg tggttgtcag gaggatacaa 180
 ttttgaggct gcggacgtag gacctctcaa tatctccaag caatagtggg gggataataa 240
 acatgagcag tagttgtttg agatctgatg ctgtagatca agattggatt ctgacacctt 300
 gtgctgaacc aactgtaatc tgattattac acattttttg gcaaaagtaa atcggattgc 360
 ccttctgttt tgcggctttt gccc 384

<210> 18949
 <211> 116
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A2

<400> 18949

ggagagtagt agtgatccgc agtgctgacg gtaggaggct gttgtggctg aggtcccggg 60
 gacggagggtg ccagcggaag tcccggcggc ccatgtggca cgagcgccca aggcga 116

<210> 18950
 <211> 133
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A3

<400> 18950

agctgattga agatattttt gttcaatctg atcatgcagt tgctgctgac aacctacggg 60
 agcaagtgag agattgtgga attaccatgg agaccactta actgatagtt gatgagaacc 120
 accggatctt ggt 133

<210> 18951
 <211> 246

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A4

 <400> 18951

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 attgttatct catgatgtc ggcggtgcg attccttcca ttaagaccgt tctatagtgg 120
 tgaaattgtg gccttgaaga caggccaaga cggggaaaag ctcaagtctt gtaggggtccc 180
 tggatatgta agaaccttag ctgggcaagc actttacaga atttcagtgg agacagggttc 240
 tggcga 246

<210> 18952
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A7

 <400> 18952

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 tcaactgggtc taccggtggc ggccacggtg aactgcgcgg acaacacggg cgccaagaac 120
 ctctacatca tctccgtcaa gggcatcaag ggccgcctca accgcctccc gtccgcctgt 180
 gtcggcgaca tggatcatggc caccgtaaag aagggaagc ccgacctcag gaagaaagtg 240
 atgcccgccg tcatcgtccg gcagcgcaag ccgtggcgtc gcaaggacgg tgtctacatg 300
 tacttgaag ataatgctgg agtgattgtg aatcccaaag gtgagatgaa aggttctgca 360
 atcact 366

<210> 18953
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-016-Q1-K1-A8

 <400> 18953

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 cctcccacc agcgaggacc cttcccgaag aactgctccg agtcctggag cgggagagag 120

gtcgagggag gagcccaata agagtttctc ctgcctctc tctctttctg ctcgaaaaat 180
tattgtcgca ttggtttggg tcccttgcca aaggaggctg cttttctgtc ctccctgac 240
taacatgatg gcgagcaccg cgtcagcgac tgccgccgtc gtggcattcg gggcagccgt 300
caagccgcgg ggaccgg 317

<210> 18954
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A9

<400> 18954

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agatacgacc atggactcca ccggcaccgg agcagggggg aaggggaaga agggagcggc 120
cgggcgcaag gtcggcgggc caaggaagaa gtcgggtgtc aggaccgtga aggccggtct 180
ccagttcccc gtcggccgca tcgggcgcta cttgaacaag ggccgctacg cgcagcgtgt 240
cggcaccggc gccacgtct acctcgacga tgacctcgaa tacctcgccg ctgaggttct 300
ggagctc 307

<210> 18955
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B1

<400> 18955

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atggctgaga tcgaggggtg agctactgcg gacgacgcta cagctgctgc ggaagcgacg 120
acgaccctg aggtggcagt gccgaagcc ggagccgcta ctgaggctaa agccccgcac 180
aagcttcacc gtcaacggac cttctg 206

<210> 18956
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B10

<400> 18956

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gactgacata ggcgtggcgt acgtggcgga cgacgacatg aacgcggaca agacggagtg 120
cgcggaaccag ctggtgggcc tggcgccgtg cctgcagtac gtgcatgggc acgcccacgc 180
gccgccggcc aactgctgcc gcgggctgcg ccaggcgctg aggaagagca ccaagtggat 240
gtccgtgctc gtgaaggaca aggacaaccc caacctgggc atcaacatca acgccaccct 300
cttgctcgcg ctgagcaacc tctgcagcac caccctggcc aacgactt 348

<210> 18957

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-016-Q1-K1-B11

<400> 18957

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ccaagagtta cagagacaac ttgcacttga cagagaagaa gcagacaaaa tacaggatga 120
tcgcgataat ttcttaaata tagcacttca aggctaacaa cgttccattg ntgttggtgg 180
caaatatgac ctacaagtgg gtttttcggg tgtctcagtg tgatttagtc ttttctcaag 240
gcatcaagtt gtgaaagcaa tgttgaaaac cacaaaaaga cgtcccaaaa ctacaaatgt 300
cataccac 308

<210> 18958

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B12

<400> 18958

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caaacattgg cggacgcaga gccggctgca gagcggagat ggcggagaag aagcgaagcg 120

ccggcactct caaggatgag gtggtgacac gcgagtacac catcaacctg cacaaacgcc 180
tccacagatg ctccttcaag aagaatgcac caaatgccat caaggagatc aggaagtctg 240
ctcataaagc catgggtact actgatgtcc ggattgacgt gaagctcaac tagcacatct 300
ggagcagtgg tattctcagt gtgccgaggc gtgtccgcgt cagaattgcc cgcattccgga 360
acgatgagga tgacgcgatg gaggaactct actccctggg cacagttgct g 411

<210> 18959
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B3

<400> 18959

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cagcattgat gccgattgcc aatggccggg gtttgatgag gtcagcctca agccttgccg 120
ctcactggca ccacaagctc ctctgtggcg cgcggagtcg gatgccgcgg ggggtgggtg 180
cggcgccggc gatgtcatgg gcctcctcct ccgggagcgc atagtcttcc tcggcaacga 240
gatcgaggac ttcctcgcgg acgccgtcgt aagccagctc cttctacttg acgccatcga 300
cccggactct gaca 314

<210> 18960
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B4

<400> 18960

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ctctttgttg aagtggaatg atttgtggga gactgagttc tgggacaaag ttgaagggtg 120
cctcatgatt catgaacgag ccaagggcat tagggtaatc ggtagctttt gacaacttga 180
ttaagagatt tttatccttc ttggccgata gttagtctta attgtttcgt ggatcattaa 240
ggacgatcaa attttcgtgc ttaaagtcag ctcagacctg ctgacctgct ctgttggtga 300
gattctcatc atcggttcct tgtatatttt tgcattattg agttttggat gctagcaatt 360

gcgactggct tctcctatta ctatctgaag cttegaactt ggaagataac tctctcggcc 420
 ttagcggttt ggtgctgact 440

<210> 18961
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-016-Q1-K1-B5
 <400> 18961

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 ctctttacgg ggcatactct ccggccactt cccagttcc aacggttgat ggtcagatgt 120
 ttggcgcaca gcattaccag tatccaacca cgtattttca gcctcctaca ccaattcctt 180
 ctaccactca aagcaacctc cagtcttcca acaatcctga aaagccagca gctaaagcag 240
 atcctgccaa ggcaaccggt aatggtgttc caaatggtac tggtcacact cacagttaca 300
 gtggaactgt accaagccaa cagagttcag cactgacgcc tgatggaac 349

<210> 18962
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-016-Q1-K1-B6
 <400> 18962

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 agtggacaaa aacggcgaag tggagaacca ttcattattc atcctgttga agttgctcgt 120
 attcttggag agcatgaact tgactgggaa tccatcgctg ctggtttatt gcatgacact 180
 gttgaagata cgaatgtggt tacttttgaa agaatagaaa atgagttagg gccaactgtg 240
 cgacgtattg ttgaagggga gacaaagggt tctaagttgg ggaaacttca gtgtaaaagt 300
 gagggtagca cnaaacaaga tattaaagca gatgacctaa ggcagatgtt tcttgccatg 360
 acagaagagg ttcgtgtgat tattgtcaaa ctggcataca ggttggataa catgcgcact 420
 ctcac 425

<210> 18963
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B7

<400> 18963

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 atacgggcca taccatccgg atactttagg agtctacagt aatcttgctg gaacttatga 180
 cgcgatggga aggctggatg aggccatcga gatcttgga tatgtggttg gaatgcgcga 240
 ggagaagcta ggtacggcaa acccagacgt tgacgacgag aagcgggaagc ttggggagct 300
 attgaaggag gctggccgtg tgcgaagcag aaaggcgaaa tccctggaga atctgctcga 360
 gaccaacccg tatatcgcca ccaaaagaaa tggccgtgct gcatgagtca ctgtcctcag 420
 atgacac 427

<210> 18964
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-B9

<400> 18964

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 tcctacaagt agccagacac cactccgact ttgccggcaa cccgtcgaca gcgacgaggc 180
 gcagcataag gcatacgggc acggcggcca tggcgaccag ctccaaaccc gccgcgccc 240
 tggaccccat ggtcgtgctc gccacgagt tccccgaggt gtcattcgac tacgacgaga 300
 gggatgtagc gttgtacgcg ctgc 324

<210> 18965
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C1

<400> 18965

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ggaaaacttt gttcaacaag gatttgatat gaaccttgct ttctgcaatc aagagaagca 120
gagaaatgag gagagttcgg tggagtcacg acaatggaga aacatcaagc agcatgtgct 180
accttatggg tcttcgaggc cactcacacg aaagctttca tttgatgcct gctcaagtga 240
atcaaggggc acagaaccct caacaagtat gtcaacagag aacacacctg tgtccatcaa 300
cgtcccaaag ttggcagagg gcattgaatt tgggaagcaa ccaatgggtca catccttcac 360
tttggt 366

<210> 18966

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C11

<400> 18966

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acacgacatg gattattgta actggccaag tacatctaaa ctcaagcgta attagacacg 120
gtcatcctca tcttggtaca tcttgaggat ctgcgcgcat ctaggaaggg caacgtcctt 180
ctggaacccc agagcatttg ccaaacgaac gtagcatgca acaccgttgc tgctggtaag 240
gaagacgggg gccctgtcac gaccagccac aacattggca cacccttgt cggggctgct 300
cacaaggacg gactcgata gctcatgctc atgctcatca atgacaagga tgtcgtaggt 360
gccgatgcgg tcagtatgcc catcgaagct gcatgta 397

<210> 18967

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A12

<400> 18967

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gcccggggccc ctgtcctcgt cgagggcgcg cgggggctcc ccgaggctga cttcaggaac 180
gcggtggagt cgtcgtctgt caagcagtgg ctgcggaacc tgcagtcgga gaagggcgtc 240
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aaacgggtgg gctttctcaa gttcaaggct gatatcgtgg acgaggaaac caaaaccaag 360
gaattgtctt tgcaagaggg cccgcagttg ctgtgttgat tcttttgag tcgaatggag 420
aa 422

<210> 18968
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C12

<400> 18968

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agccgtggtg gaacgagacg caagtgtacg ccaccaccgc caactgcggt ggcggaaca 240
gcgtcttcgt cagcctcacg ctcattcagt cggcgggcgc caatggagcg gtgtgcttgg 300
atggaagctt accaggttac cacctcaca g 331

<210> 18969
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G4

<400> 18969

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gtacgggtgt ggccgtggag gggcgggcta cggcggtggc gggcgccgtg atggcgggcg 180
cggctacggc ggtggcgggc gctacgggtg tggcgggcgc ggctacagtg gtggtggcg 240
cggctacggc ggtggcaacc gtggcgggcg ctacggcaac tccgacggga actggaggaa 300

ctgagcgggtg gggcccgccg ggtcaagtta tcctgttcgc taccgtgttg tttaccctag 360
tccagagtgt ttatctttcg tcgtctcgtg ttttgtgttg cccatctgtg tttttgat 418

<210> 18970
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G5

<400> 18970

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ggtggcggttc gcggcgatgt tcacgggtgcc cggcggcaac gccaacgacg gcgtggcggt 120
ggccgtgcac gcgacggcct tcaaggtgtt cttcatcttc aacgccgtcg cgctgttcac 180
gtcgtctggcg gtgggtgttg tccagataac gctgggtccgg ggcgagacca aagcgg 236

<210> 18971
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G6

<400> 18971

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catcagcatg ggaggcgatg ccttggcatt cccaatacta agaatttcaa tgaaattaca 120
tccatcgagg aggcgaaagc gctctgggag aaaattcaag caccgacaagg ggtgaacaag 180
tggcggccag acctagaaga agagtatgaa gatcaggaag gcaacatcta caacaagaag 240
acctacactg acctgcagcg tcaaggcctg atctagggct cctgctgggt aaagttgtcg 300
ggatttgttc agaacttata tcatgtagtt gtaactctga aaatattggc ccatctggca 360
tacattttat gtaataagat gattttccgg aactcgtgct tttcctgggt ggcatgggt 419

<210> 18972
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G7

<400> 18972

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acaccgcgc agtgggtgaa ctgcgcggga tcgcggtggg agcggtcgta acgctgaaca 180
tcctcgtcgc cgggccgacg accggcggggt tcatgaa 217

<210> 18973

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G8

<400> 18973

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tgatgtggta cgttaattga tcacgtgcta tggaagacga gtggaattga tctccaagtg 120
atgctgatgg acgaagctaa aatggatgaa tcaaccaagt gccaggatgg aagatgctca 180
ccaagtggtc gtcaattaac aacactaacg tagtgtttat cccaggttgt aattttgttc 240
tgttgtggat ggtgctaagt gccggtgggc tcggccttct tatataagta tatcccatct 300
ttagcttctt tattgaggat tgtcacttaa gctagcatgt attttaaaac ttataaatgt 360
tttatacatt caaattgtaa tatttttgaa tcaaattctc ttataatcac tccgatga 418

<210> 18974

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H10

<400> 18974

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cccagagatt cactatgaga ctactgggcc tgaaatctgg aaagctacag caggaaaaat 120
tgctggcctt gtatctggta tcgggacagg aggtaccatc accggtactg ggcgatacct 180
cagagagcaa aatcctaattg tcaagctcta tgggtgtggag ccagtggaga gtgctgtttt 240
gaatggtgga aaacctggac cacacaagat tcaaggaatt ggagctgggt ttatccctgg 300

agtcctggat gttgatctcc ttgatgagac tctacagggt tcaagtgatg aagctattga 360
aactgccaaa gctcttgctc tgaaagaacg gttggtgggt ggaatctct 409

<210> 18975
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-H11
<400> 18975

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ccagatgggtg tttggtcata tgatgtaagc accgggattt ggaggcaatt tgccatccca 120
ctgccactgc atctgactga tcacacactt gccgagttcc agggaagggt tatgctgggtg 180
ggtctgctgt gcaaaaatgc agcgacctgc atctgcatat gggagttgca gaagatgact 240
ctcctctgga aggaggtgga cagaatgcca aatctctggt gcttagagtt ctacggtaag 300
cacatgaaga tgaaatgcct gggcaacagt ggtttgctca tgctctcctt gaaggcgaag 360
catatgaacc gncttgttac atacaacctt ttgaaaaggg agtggcaca ggtcctgatt 420
gcatgctacc atgg 434

<210> 18976
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-015-Q1-K1-H12
<400> 18976

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gcacagtcca agagaggtat ggtcacgctc aagtatccga tcgagcatgg tattgtgagc 120
aactgggatg acatggagaa aatctggcat cacactttct acaacgagct tcgtgttgcc 180
ccagatgagc accctgtgtt gctcactgag gctcctttga acccaaaggc caacagggag 240
aagatgaccc agattatgtt cgagactttc aatgttctcg ccatgtacgt tgcaattcaa 300
gcagtgtgtg cactctatgc cagtggacgt actactggta ttgttctcga ctctgggtgat 360

gggtgtgagtc aactgtgcc ctttatgaa agatatgcc ttcccatgc cattcttcgt 420
ctggatcttg ctggtcg 437

<210> 18977
<211> 271
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-H2

<400> 18977

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cgtatggccc ctattaagg ggcgaagct cgggggaaa agcaagacgg acctgcaggc 120
gcagttcaag gagctgaagt ctgagctctc cctcctccgc gtagccaagg tcaccggcgg 180
ggcacccaac aggttttcca gatcaaagt gtgcgcacct ctattgcgcg cgtgtcaca 240
gtgatctcgc acaaacagaa atctgcgttt c 271

<210> 18978
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H3

<400> 18978

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aattggttga cttttaacga gccacagaca tttaaacct tttcgtacgg aacgggagtt 120
tttgccctg gacggtgctc accaggagaa aaatgtgctc agcctattgc taactcactc 180
accgaaccat acattgctgg ccacaacatc cttcgagccc acgct 225

<210> 18979
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H4

<400> 18979

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gcgcttgctc cactccttgc tgtgggtccc gttccgcctg gaacgcctgt tccggcggca 120
 gggaatccgg tggccaccac gaagcctggg ctccggtaac gcagccgact accgcgacct 180
 gctagccgcc gccagggtccg cgcacctctc ctcttccgc cacaacggcg tcgtcgcccg 240
 cgccacgccg cagtacgcgg tctgggtggc gcggtacggc cggccgttcg tgtactgggt 300
 cgggccccgg ccgcggctgg tgatctccga cacggagctc gtgaaggccg tgatgaccga 360
 cttcacgggg ggctttgat 379

<210> 18980

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H6

<400> 18980

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 gacagcgtcc aaggctccct ggaaaatcgt cgtgggtcac caccatca gcagcgctg 180
 cgggcatggg aacaacactg agctggagga gttgcttctc ccggtcctca ggacacacgg 240
 ggttgacatg tacttgaatg gccatgacca ctgccttaag cgcgtcagca gcagagacag 300
 tcgtcttcag ctactaacca gggcgggcgg gttccaaggc at 342

<210> 18981

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H7

<400> 18981

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 gagaggaccc catacatcaa acatgactaa agaagaagaa gatgaacaat accttataga 180
 tgaataatat gcccttgctt ggcgaggtgg gaacacattt agtttcacaa cctttatgc 239

<210> 18982
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-H9

<400> 18982

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gctgctgttc caccagcccg ccaggcccg ggacgccttc caccaggtgc tcaacgggct   180
ggcgcgcaag ctgccgcacg gcgagggcgt gttcctgcag cccggggaga aggcgctcga   240
ctgggacgcc ggactcgaga gcgacctcaa gccgtggtag tgggccagta cctagcgggt   300
gactttctca tgttccttct ttcttttggc ctctcttatt tgattggcat tggcatcgat   360
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tgtatactc                                     429
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<210> 18983
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A1

<400> 18983

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cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccacttct tcaaccacca   120
caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtgggtcac   180
cgtcaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacao   240
gcagcacctc ggcgaggccg gcgccatcgc cgccggcgcc ttagcactct acgagaagca   300
cgaggcgaag aaggaccccc agcacgcgca caggcacaag atcacggaag aggtcgctgc   360
cgcgggcgcc gtcggcgccg gcggctacgt attccacgag caccacgag                                     409
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<210> 18984
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A10

<400> 18984

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gcacaatgcc gagccatctc gcgctgctcc tgcccctgct actgctggcc tcgccggcgg 120
ccacgcgcct ggcgtccgcc gcctgcgcgg gcgagaagtt cccggcgggg cgtgcgtacg 180
cgtcgtgcga ggacctgccg aagctggggc cgctcgtgca ctggacgtac gacgcgtcca 240
agagctccct gtcggtggcg ttcgtggcg cgcccgcggc ggcgggcgga tgggtggcgt 300
ggggcctgaa cccgacgggc gagggcatgg cccgcgc 337

<210> 18985

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-A11

<400> 18985

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cacagcagcc aggaagagca agagcaagat gctgcgcggg ggacacgggca tgctgggggt 180
ggtgaacttc ataaccttcc tgatctcgat ccctatcctt ggcggcggca tctggtggc 240
gttgcgggcc aactacaccg actgcatccg ctctctgcag tggcccatca tcgcggtggg 300
gctcggcctc atgggtcggt gcctcatggg cttegccggc gcctgctacc gccagacct 359

<210> 18986

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-G3

<400> 18986

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tgaggaggct tggtaacggt ggtggcgttg gattggagcc atgggtgtgc attggcgatg 120
gacagaaggc ggctgcagcc gcatcatctg gaaggaaaga gaggaatggt tgtagaattg 180

agtgtactg cagttgggtg tttgtggcac ggtgcgcgga cgtcgaggtg tggagtcagg 240
 tgggattggc accagaagcc ggtgggaaag aaagtgatga 280

<210> 18987
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E8
 <400> 18987

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 caggcagcca tcatgtcgga ggagaagcac caccatttct tcaaccacca caagaaggac 120
 gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtgggtcac cgccaccggc 180
 gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacia gcagcacctc 240
 ggcgaggccg gcgccatcgc cgcgggcgcc ttgcactct acgagaagca cgaggcgaag 300
 aaggaccccg agcacgcgca caggcacaag atcacggatg aggtcgctgc cgcggcggcc 360
 gttcggcgcc ggcggtacg tattccacga gcaccacgag aagaa 405

<210> 18988
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E9
 <400> 18988

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 gcagaacgat cccgctcata catgtatagc cggcctaccg caacaagaag ttcgagacac 180
 tttcatacct gccaccgctt tccaccgacg acctgctgaa tcatagtcac tacctgctgc 240
 tcaacgactg gatacacctt actctaacta aaacaggctg gattcgtgta ccgtgaaaac 300
 tccacctacc cttgtacta caaccgccag tactggacca tgtctgaatc tgcccata 358

<210> 18989
 <211> 93

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F1

<400> 18989

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agggatcagc caatctcgga aaggaagttt cgt 93

<210> 18990
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F10

<400> 18990

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gcacgcaagc cagaccggac cgaatcgaag cagcagcagc gtacagaaga tcacacccta 120

ctgccgcgct gcactgcaca atgggcatct gcgtgtcgtg cgacgcggcg gacgagggcg 180

ccgcgacggc ggcgcgggtg gtgctcccca gcggagagct ccgggagtag gcgccaccgg 240

ccaccgccgc ggaagcgctg caagcggcgg gcgagggctc gtcgtggctc ctctgcgacg 300

ccgacgggat ggcgttcgat ggccccgtcg cagtcgcggc ggtcgcgccg ggggccgagc 360

tccaggcggt gcaaactctac ttcgtgctcc cc 392

<210> 18991
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-F11

<400> 18991

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ggcggagatc cgcgacccca agaagcgggg gtcccgcgtg tggctcggca cctacgacac 180

cgccatcgag gccgcgcgcg cctacgaccg cgccgcgttc cgcattgcgc gcgccaaggc 240

catcctgaac ttccccaacg aggtgggcac ccgcggcgcg gacttcctcg cgccgccgcc 300
 gccgccgccg catgccggcg caacgtccca gaacaaacgg aagctgatgc acgacgccga 360
 ggccacggnc acggccgggg ccggagccgg agccgagcca 400

<210> 18992
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-F12
 <400> 18992

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 cgtcggggcg ggtgtcgctg gcgctggcgc tgagcacgga ctctccggc tccgcggtg 180
 ccccgggcgc gaagcggcg cgccggatgg gcgccgcggc ggccacgtcg ggggaggggg 240
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 gccggcagca gcacaagcat catcagcagg ccggcggc 398

<210> 18993
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-F2
 <400> 18993

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 tcacgacggc agcgtttggg cgcagtccga gagcttcccc gagttaaagc ctgaggaggt 240
 tgctggtatc ataaaggact ttgatgaacc tgggtactctt gcaccaactg gtcttttcgt 300
 tggaggtaca aagtacatgg tgatccaagg tgaacctgga gttgtcatcc gaggaagaa 360
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<210> 18994
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F3

<400> 18994

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ttttgactga tttggttgag ggccttgaag aagctgatgt gacagttgaa ataaggttaa 180
agattgatca gaatcatgca gatttgaaag gagggtcctt ccgtgactat ggagaatccg 240
tcttgagaca tttagagaat gcaatcagca aagacccaaa tctccataaa gcccagggtga 300
accatgatgg cgtaagggtt tcaggatatg gtgggtgggt cttgctgaag ctctctctgc 360
atgacacctg tc 372
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<210> 18995
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F4

<400> 18995

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gtggcgaggg gcatccggag ggccatcatc accgggcggg ccgtcagggt cagggtcccag 180
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gccaggctct acagcaccaa ctccatgggc tctgccaaag tcatcgctg gaaggacggg 300
atcggaacaa gcctgctggt ggagccccgg gagttcgact gcctggagaa ggtgagcggg 360
ctcaacgagc acgccacctc cggtcacgac ctctaccccg ac 402
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<210> 18996
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F5

<400> 18996

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ccatgctttc ttggcatcag aggccatcat caagcagatt ccccgctctcc ttgggtcctgg 180
tctcaacaag gcaggcaagt tcccgaccct gggtactcac caggaatccc tcgaatccaa 240
agtgaacgag actaaagcaa cccg 264

<210> 18997

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F6

<400> 18997

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atatttcagc gaccagtctc aaatgaggta tatgatctga gagcaaaaaa ggatcctcca 180
ttttgcaagg aagagcagaa caaagctagt gcatgggtata ctaatatcaa acattgcctg 240
caciaagcac ctgttggtat cgaagaaaga ggcagtgact ggcttgagga gtggcccaag 300
aggctcgaga gtttcctga gtggcttgag gaaacag 337

<210> 18998

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F7

<400> 18998

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caacttgcca ccaaggctgc ccgtaagtct gccccacca ctggtggagt gaagaatctt 180
caccgttacc gtcttgcaac tgttgccctc cgtgagatcc gcaagtatca gaagagcact 240

gagctgctga tcaagaagct gccctttcat aagctcgtca gggaaattgc acaggacttc 300
 aaaactgatt tgcgttt 317

<210> 18999
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-F8

<400> 18999

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 gaggcggttg cggctacggc ggtcgcgcg agggtaggttg tggcggttac ggccgcggcg 240
 gcggcggttg gagggactga tgtgtgggcc catcctggct tcggccgagt tatcttatct 300
 atctatagta tcgtgttacc gttcgcttct gtcaccgtgt tagtgtccgt tctacctttg 360
 gattangtgt tggtagccct gttg 384

<210> 19000
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-F9

<400> 19000

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 aaggacaagg ggaagaagac cggcgggccc gtctcgcgct cctcccgcgc cgcacccag 180
 gagaagtcag ctccgaagaa agatgtttat caattgttcg ctgagaaggt cagggataac 240
 aaacaactgg aatcaagatg ggcgatcatg caagaaaccc gcgtggagta tttccgtgga 300
 aaagatttca ataccttcgt caagaatcat ccagaagtca cggaaatttt ggagccagat 360
 aaggatttag aggtggaaga cattgttaac a 391

<210> 19001
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-G1

 <400> 19001

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 cggcgggcggt cctggcagcg gcgctgctgc tgctggcggc agaggccggg acggcgctcag 180
 cggcggtgag ctgcggcgag gtgacgtcgt cgggtggcgcc gtgcctcggg tacgcgatgg 240
 gcagcgcggc gtctccctcc gctgctgct tcagcggggg gcgctcgctc aacagccggg 300

<210> 19002
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-G10

 <400> 19002

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 tgatgcaacc gcagatcatc ctgctcaagg agggcacgga cacgtcgag gggcgcgctc 180
 aggtggtgag caacatcaac gcgtgcacgg cgggtgggga caccgtgcgg accacgctgg 240
 ggcctcgggg gatggacaag ctcatccacg acgacaagg cgagtcacc atctccaacg 300
 acggcgccac catcatgcgc ctctcgaca tcgtgcacc cgccgccaag atccttgctg 360
 acatcgccaa gtgcaggac tccgaggtcg gcgatgggac aactactgtg gtgcttctag 420
 ctg 423

<210> 19003
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-G11

<400> 19003

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cgtgaagccc gtgcccacca tccgggtcaa ggccaagcac gccggcgta cgcacgagat 120
ctacatcagt tccgaggcct ccttcgggtca gtccagccgt ctgctctctc tctctcgctc 180
gctcgcgctg acggatgctg ctgcgcaggg gagctgaaga agctgggtggc cgccaagacg 240
gggctgcacc ccgacgacca gaagggtgctg tacaaggaca gggagcgtga ctccaaggcg 300
ttcctggaca cggccggcgt cagggaccgc tccaagggtg tgggtgctgga ggatcccagag 360
gcccgcgcgc gccgactcat cggngagcgc c 391

<210> 19004

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E7

<400> 19004

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atTTTTTTTT ctttggtgt ttacattcaa agtcgtgacg ccattttttt tttttttaac 120
acaaacaaca aaccccccat actcatttaa actcaccaac cccaccaacc ccaactctca 180
aacacctaca tctcacccca aatcaattaa aacatccacc aaatacacca tcttacctac 240
aaaaaccctc aacttaccca caaaaaaacac cccctaccac aaaa 284

<210> 19005

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-015-Q1-K1-G2

<400> 19005

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ggctegtctc gctcccctgt ttgcgcgcc cccagatccg gcaccgcccg ctgctcgaac 120
ccgcacccca cgcccgcagg ccgggaccgg tgggcgcgcg ccgggcagta ggaggagag 180
gaagggcggc atggcggcgc gcggggcgag ggcccgggcc gactacgact accttatcaa 240

gcttcttctc attggggata gcggtgttgg caagagttgc ctctgttgc ggttctctga 300
 tggttccttc actacaagct ttattaccac aattgggtatt gactntaaga tacggacaat 360
 agaattggat ggtaagcgta taaagctaca gatttgggat a 401

<210> 19006
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-D10
 <400> 19006

gaacacaggg cacacgcact acacgcacgg cacgcagata catatagaga gaggttaggt 60
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 aaagcgaaag cagcaagaag caaagcaatg gagaacctg cgagtgtgct agttctacca 180
 gcgcagttca ccaaactcac cttcggaaac ctgtacatcc gccgggcccgg gccgggcagc 240
 agggagataa ccgaggaggg caggtgacgac ctggacagga gatacgtgag taacttcccc 300
 gtctacgacg gccgcggccc cgacgccagc cttgtggccc gcgtgcaggg gatcaccagc 360
 gaaatcggga acgcgcacca actgttcgtc gttgtgttcg acaccgacag gctcaagggg 420
 ctcac 425

<210> 19007
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-D11
 <400> 19007

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 cgtcgctgtc cgccttcggc gagggccgcg tgacgatgcy caagacggcg gcgaaggcca 180
 agccggcggc ggcgtccggg agcccgtggt acggccccga ccgctgtctg tacctggggc 240
 cactgtccgg cgagccgcgc agctacctga cgggcgagtt cccgggcgac tacggctggg 300
 acaccgcggg gctgtcggcg gacccggaga cgttcgccaa gaaccgggag ctggaggtga 360

tccactcccc ctgggccatg ctgggcgcgc tc

392

<210> 19008
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D12

<400> 19008

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tccttcccaa gaggatagtt ctttagccaa gccatatcac acttctctct ctaccgagcc 120
acacagacca gagcgagctc tcatggcgat actgctccgc aaggtgtggg gctccgtgct 180
ggcgcgcgcc gcatcgccgg ggcccgaccc gcgggcccgc cgcgcgcaag cgcattctgc 240
ggagcagtac cagtaccaca gctcgctatc atctggctgc gctcgacgac gtccccacca 300
acgtgctgct ccagatcatg ctgctgctgg tcccgtcgt cgacgcgcgc tgcagcaccg 360
tctgcgcgc ctggcgcgct ctcctc 386

<210> 19009
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D2

<400> 19009

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gggaggggaa acaacatggg ctattatata cttcctgaca gcctaaacct ggagactttg 120
ctggttgagg aaacaccaag ggtcaagcct aagaagccta cttctgggaa gcccttggga 180
cgtgggcgtg gccgtggctg tgggcgcggt cggggctcgg gacgttgagc atgctagctg 240
cttttgaaaa ttgcattgct tgcattctga gtgtaacct cattcctatc aattgtacga 300
agtatgcctt tgattatgcc accatgtatc aattgctttt aaaaaaaagt aaaaca 356

<210> 19010
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D3

<400> 19010

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agaatcagcg aattgatgcg agctaggagc caagactctt gtggttccag gaaacctccc 120
tattggatgt gtcccaaat atctgatgat attcaagagc aataagaaag aggattatga 180
tccacagaca ggttgtctta gatggatgaa cgagttctca cagtaccaca acaagcttct 240
tgtggagcag ctcaagaagc ttcgcaggct ccatcctgga gtaaccatca tctattgctg 300
attactaatg gactgctatg ggaaatatc ctttccctgg aacatatggg at 352

<210> 19011

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D5

<400> 19011

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ggccttcacg gacgagaggg cctcacgaaa attaaacagt tcacggtgga ttcattctcg 120
gtcgagacca atatggtgtt cttcgatata gtggatccac acatttcacc gagcaagcta 180
tgccaagtct tggaacaacg caatgttctt gcaatgccag caagttc 227

<210> 19012

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D6

<400> 19012

gcgtcttgga atatttgata agcccagcaa caaccaatgg ttctctcaac tagggccgaa 60
cagtgtgtgc acgaaagagc atagagagct tgcagcagaa gctgtaaggc aggggtgctgt 120
ccttctgaag aatgaccata attttttgcc tctgaagaga agcgaagtta gacatgttgc 180
catcattgga ccatctgcaa atgacgcgta tgcgatgggc ggagactata caggtgttcc 240
ctgcaatcct acgaccttcc ttaaggcat tcaagcatat gctacac 287

<210> 19013
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D7

<400> 19013

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 cagtgggggt tggaggtgta tactgatgct ctcattgcca gctacatcta caatgtacct 120
 tgcactcttg tttgctthta gctgtgctta ttcctgagtc gttgaatgtt ttatattttc 180
 tttccacaag tctgtctcat gtagggaaact gtctcatcta ggaatataac ttcctttact 240
 tgctaccctg gcgattgagt ttggaacccc cattgaattt ggaaacccca aacctggggt 300
 tgggtt 306

<210> 19014
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D8

<400> 19014

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 tgctctcca catggaggca ttgcctatgg attggatcgg ttggtgatgc ttttggcggg 180
 tgagagctcg atccgagatg tgattgcttt cccaagacc acgactgctc agtgtgcact 240
 caccaaagca ccatcagctg 260

<210> 19015
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D9

<400> 19015

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ctgagccccg agatgcggga gacactggac aaggctcgtgg ggtccagcaa ggtggttgcta 120
 ttcatgaagg gcaccaagga ctttccgcag tgcggctttct cccacaccgt cgtgcagatc 180
 ctgcgctcgc tcgacgtgcc cttcgagacg ctcgacgtgc tcgctaacga ggcgctccgg 240
 cagggggtca aggagtactc cagctggccc accttcccgc agctctacat cgacggcgag 300
 ttcttcggcg gatgtgacat caccgtcgag gcatacaaga gtggagaact gcaggaaact 360
 ctagagaaag caatgtgttc gtagaaaaaa atgaacaata agcagatggc atacaattaa 420
 tcaaa 425

<210> 19016
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E1
 <400> 19016

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 gttctcaata tccttatgaa aacgagatgg acctcgcatt agaaagggca ctctgctcgt 180
 tacttggtggg ggatatttgc aattgcagaa tgtggcttgg aattgataat gagtcctcgt 240
 catatagggg ccccaaaatt atcgagtttg tggatgaataa ctctagcatg aacgaag 297

<210> 19017
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E10
 <400> 19017

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 aggaggaggg agccggagat ggtgggtctc gtcggcggca gcacggcgcg ggcggaacac 180
 gtcgtcgcca acgccggaag ggaagcagaa tacgtgcgcc ggatgcaccg gcacgcgccg 240
 gccgatcacc agtgcacctt cacccttgtc aagcacatta aggcgcccgt ccaccttgtg 300

tggaactcg tgcgg

315

<210> 19018

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E11

<400> 19018

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gatcgaaagg tggaggagag aggagaagcg ccaagaggca ctggagcttc aagggtgtctc 120
gtcttccttt tctgacaaga tatcagagga aatatgcaat tcagcagcta aaatggccaa 180
caacttagga gtcgacgccg ttttcgttta cacgaaggac ggatacatgg cctccctgct 240
ctcacgatgc cgccccgact gcccgatctt cgccttcacg tcttcgacgt ctgtcaggag 300
acggctgaac ctccagtggg gcctcatccc gttccggctc agcgagtccg acgacatgga 360
gagcaacctc aaccgcacct tcttcctgct gaaggccagg ggcatggtgc agtctgg 417

<210> 19019

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E12

<400> 19019

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ttcctcccgc cgagctccca gaagtccttc ccggcgccgg cccacccctg gtccggccgc 120
atctggggcg gcacgggctg cgcggggcgc ggcgcgcacg tccactgcgc cacgggacgc 180
tgcgggcggc ggctccagtg cggcgggctc ggcggcgccg cgcgcgcacg gctggcgag 240
gtgaacctcc accacggcaa cgaccagacc tcgtacggcg tgagcgtggg ggacggcttc 300
aacgtggggc tgtccgtgac cccgcacgat ggccggcgga actgccccgt cctgcctgc 360
cgcaagaacc tcaccgagac ctgccccggc gaggc 394

<210> 19020

<211> 446

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E2
 <400> 19020

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gacgcggggg aaaatgggga agactgcggg gcggatgaag gcggtggtgt acgcgctgtc  120
gcccttcag cagaaggtga tgccggggct gtggaaggac atcaccacca agatccacca  180
caaggtcacc gagaactgga tctccgccac gctcctcctc acccccgtcg tcggcaccta  240
ccaatacgcc atgtgttaca aagagcagga gaagctttcc cacagatact aaatgggatg  300
tctccaagt tgctgcggct tgctgcagtt gaattttcca tgatgggttg tataatctgt  360
caatgtcatt tctttgtca gttttagtcc aaccatttt caccttttca tatgcatata  420
cggtatctgt gcctggcaaa catatt                                     446
  
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<210> 19021
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-E4
 <400> 19021

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gccggccgac gacgtagcg ctccgtggtc cgtgcggcgc tcgaggacgt acggtacgag   60
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tgcttcgggg ccgccgcgc cggcgggcag gagcccgcg cggcgggtgcc ggcgagcagg  180
cgccccggcg gcgttgggaa gcggacgctg cggcggctga gcacggccaa cctgcggtcg  240
ctgtcgctgc aggacctgtc gcggaagctg gagacgacga agctgcacac cttcacgctg  300
gacgagctca aggcgcncac gaagaacttc ttcaccacca acttcctcgg cgagggcg   358
  
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<210> 19022
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-E5

<400> 19022

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caccctgaag aggttagcaa gctggccaaa gtgaaggcac aggtttctga agtcaagggt 180
gttatgatgg aaaacattga aaaggtccta gatcgtggag agaagattga gctgcttggt 240
gacaagactg agaatc 256

<210> 19023

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-D1

<400> 19023

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cgcttcgctt ccttgctga tctttgcttc ccagacggcc agatcaggcg aaaggcgtga 120
cgggggccac cgctgcggcg ccgcccctcg accctccgct gctccgctg cgctggagac 180
catccatctg gaagagatct ctgatttacg ggatggacgg agccaagcca gtggcggccg 240
tgaagc 246

<210> 19024

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-E6

<400> 19024

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tccttggtga ggggtgacac tgctaattgt attcgttact tccctactca ggctttgaac 120
tttgcattha aggactactt caagaggttg ttcaacttca agaaggatag ggatggctat 180
tggaagtggg ttgctggcaa cctggcctct ggtggtgctg ctggtgcttc ctctttagtt 240
tttgtgtact ccctggacta cgcg 264

<210> 19025

<211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-B1

 <400> 19025

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 cggcacaatg ccgagccagg tcgcgctgct cctgcccctg ctactgctgg cctcgccggc 120
 ggccacgcgc ctggcgctccg ccgcctgcgc gtgcgagaag atcccggcgg ggcgtgcgta 180
 cgcgtcgtgc gaggacctgc cgaagctggg cgcgtcgtcg cactggacgt accacgcgtc 240
 caaaagctcc ctgtcggcgg cgttcgtggc g 271

<210> 19026
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-B10

 <400> 19026

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 caaacatgct gctttggcca ggcccaaagg gtgcagtgcaa tcaaagagat gctgatcttc 120
 tcttcatgtg gaagaggtac gagcagtgtaa atgggggggac cgaagagaag ctgaggggctc 180
 tcatagagat taaagaaact gttcagcaca ggaagcatct tgacagcagt atcgatttcg 240
 ttgggagggt cgtcttcgga tttgagaaaag ggccttcgat gcttgaggct gttagaacct 300
 ctggtcaacc attagtcgat gactgggact gtttgaagag gatggtgcgg attttcgagt 360
 ccagtggtgg ttcacttact cagta 385

<210> 19027
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-B11

 <400> 19027

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gagtcgagggt caaatggcca ggcgctgggt cggcccgag gtgtaccgc tgttcgaggc 120
gacgggaggt gccgctggca tctgagggtt tcagctcttc cggaacatca ctggcaaccc 180
ggaagtcagg gtaaacaaag caaggagggc agctggtgtg cttgagaacc atgangaggg 240
gagacgttac gccatgcatg gctaagaag ctttgtgcac gacaagactt ctgagatcat 300
g 301

<210> 19028
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B12

<400> 19028

acggctagtg acagatgctc tagatccgct catcctggcg ggctagtgag gtcgtaagcg 60
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ggagacgggc ctcgagaagc tccgcaaggc caccaccgcc cgtccgctcg ttatcaacat 180
agacgcgaac ggcggcagct acaagctggc gcagtcgatg ccatcgacct cgacgactcc 240
gatgacgcct tcacgctcgt attcatcgac gacgccgcgc ggccgcccga acatgtggcg 300
catagtcttg cacacgggga tcaacctggc cac 333

<210> 19029
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B2

<400> 19029

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ttatcggtta aacacccatt ggttgatcaa ataccaggta ggtacacttc actacacaaa 120
acaacaaaca taaaactggt taccgtaata tgcaccacct aatgaacaat acctaataac 180
taccactatt ataattcact tcat 204

<210> 19030
<211> 205

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B3

<400> 19030

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 cggtatcgac ggcaatccag atcctaccat ggctcaagac attctccaac ggcaactccat 120
 caaagaaaca cccgttgctc ccaccgtgc tgatccacgg cggctcaatc agcgctccgg 180
 taaccctcc tctaagctcg ccgtc 205

<210> 19031
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-B4

<400> 19031

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 ttgttaattt atggaatatt aattaagtct tcaacatgat tgattgcatt tgacattatt 180
 ttccaatttc tttactaact gttttaaatt tctcataact actcaccaaa tgatttt 237

<210> 19032
 <211> 188
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-B6

<400> 19032

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 gctcgcaggg gtcgaggaga gcgagcacag cttctacgcg ctgcagtggg cgctgcagca 120
 cttcttcccg ccggggcagc cgcagcagta ccgctctgct gtcgtcaccg ccaagcccac 180
 cgccggct 188

<210> 19033

<211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-B7

 <400> 19033

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 tatcaggagg aggcattgggt accctggggc gcgcgatctt cacggtgggc aagtggatcc 180
 ggggcacggg gcaggccatg gaccgcctcg gatccacat ccagggcggc ctccgcgctcg 240
 aggaacaggt ttcaaggcat cgtacaatca tgaatatatt tgag 284

<210> 19034
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C10

 <400> 19034

 agggcagggg acacagccac tcgccttcga gaccccgggc gcgcgcgagag aaagagggga 60
 gaggaggatc ttttgttggg gaaaaatatt ggaggcgag ggaagggtgaa ggagggggat 120
 cggagatgaa cgtgttccgg ctggcggggg acatgacca ctcctcagc gtggtagtgc 180
 tgctcctcaa gatccatacc atcaagtcct gcgcaggcat atctctgaag acacaggagc 240
 tgtatgcact tgtttttgca gcacggtacc tggacctgtt tgttcatatt gtgtctctgt 300
 ataacactgt catgaagctg gtcttcttgg caagttcttt ctgatagtt tggtagatga 360
 agcggcataa gattgtgcgg aggacatatg acaaggatca tgacaccttt cgccattacg 420
 ttt 423

<210> 19035
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C11

 <400> 19035

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actgggcgca gctagctagg agcagcagca gcgggcgga tggcggcctc catgatctcc 120
tcgtcagctc tggcggtggc gcctcagggc ctgccgcccc tcggccgccc cgcctcctcc 180
ttcgccgtcg tctgctccaa gaagaagatc aagaccgaca agccctacgg gattgggggt 240
ggcctgaccg tcgacgtcga cgccaacggg agaaaggga agggcaaggg cgtgtaccag 300
ttcgtcgaca agtacggcgc gaacgtcgac ggatacagcc caatctacaa cgaggatgac 360
tggtctccca ccggcgacgt ctacgtcggg ggaaccactg ggcttctgat ct 412

<210> 19036

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-015-Q1-K1-C12

<400> 19036

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ctgccgaatg angggaccgt tgattacccg agcttcaagc tcgtcatcgt cggcgatggg 120
ggaactggta aaactacatt tgtgaagagg catctcactg gagagtttga gaagaaatat 180
gaaccaacca ttgggtgtgga agttcatccg ttggatttca ccactaactg tggtaagatc 240
aggttctact gctgggatac cgcagggcaa gagaagtttg gtggcctcag ggatggatac 300
tatatccatg gccagtgtgc gatcatcatg tttgatgtaa cctcaaggct tacttacaag 360
aatgttccta cgtggcatat ggacctgtgc agggctctgtg aaaacattcc ca 412

<210> 19037

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C2

<400> 19037

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cgtctcctgc tgggacgagg attcaagaag ctagctaaga gagaaggga taacgagata 120
ataagcagcg cggaagatg caagactggg cgccggtgtt cgtctcgtg gtgctcttca 180

tctgtctgtc gccgggcctg ctgttccaga tgccgggcaa gtgccggatc atcgatttcg 240
gcaactttca gaccaacgcc atctcca 267

<210> 19038
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C3

<400> 19038

acgccgaccc gcagccgccg ccgttcgcca tgggtttcct cgacgcgctc taccgtgggg 60
tgatgcgccg caacgccggc tgcgttacct tcgtcgtcgc cggcgctttc gggggcgagc 120
gggcgggtgga ctacggcggt cacaagatct gggagatgaa caacctcggg gtacgaagac 180
atatcggttt tggggcaaag gccagctgag gaatgataaa ttttggtcac cagtttgctt 240
cggtttgacc gtttcatttt ggcacagtaa taaacgatgt aaacttacgc tggtcctatg 300
acctccttct cattcggtta ctcttgaaat gcttt 335

<210> 19039
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C4

<400> 19039

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gcgggcccga agtggagggc gttgcatagc tttgtgtggt cctgacaaca gggttattgg 120
tgaggagtga ggtggagtc tgatggcagc tggagcgggt caggtgatag tggggagctt 180
catgtacgga ggaggttcaa agaagaacaa ggtgaaagcc gagttggacg cggagcctga 240
ggaggcgaac gccggcgacc aagaggtggc acttgccggag cacagcagca tggcccctca 300
tctgccatg agtgggtggt gcggtctggc atctggcatg atgaggcaga tggagtcgag 360
aactcccaac 370

<210> 19040
<211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C6

 <400> 19040

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 gtcggaggag gagcgccacc actttcttcaa ccaccacaag aaggacgagg agcagcccgc 120
 cggcgagtac gggactctcg agaccgaggt ggtcaccgcc accggcgagg gcgagtacga 180
 gaggtacaag aaggaggaga aggagcacia gcacaagcag cacctcggcg aggccggcgc 240
 catcgccgtc ggcgcttctg cactttctacg agaagcacga ggcaaaaaag gaccccaagc 300
 acgcgcacag gcccaggatc acggaggagg tcgttgccgc ggcgccgctc ggccccggc 359

<210> 19041
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-C7

 <400> 19041

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 ttgacctgag tagcacttaa gattgtgtat ctaaagttgt agggattcat gttcatgcga 120
 ttatgcttgg atatacggag tgacatcgtg gagcataaag atgacttgta cattcgtctt 180
 gttcatcgag agtcatgtga cttttatcaa aagaaacaaa tacattgtga tatcaatcac 240
 gatatatgtt ttttaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaataaaa 300
 aaaataaaaa aaaaaaatat ataaaaataa atttaaaaaa atataataat aattt 355

<210> 19042
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-C8

 <400> 19042

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gtgggcgcca ccgtgctgca gaagatgttc atgaagggtc tctcggggga cctggaggcc 120
gcgcacgcca gggcgacgca gatcgcgggc gaggccgtgg ccaacctgcg caccgtggcc 180
gcgttcaacg cggagcgcaa gatcacgggg ctgttcgagg ccaacctgcg cggcccgcctc 240
cggcgctgct tctggaaggg gcagatcgcc ggcagcggct acggcgtggc gcagttcctg 300
ctgtacgcgt nctacgcgt ggggctgtgg tacgcggcgt ggctggtgaa gcacggcgtg 360
tccg 364

<210> 19043
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-C9

<400> 19043
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ggaaagggttc aatagttaca ggcacaagtt tcacttgaca gataagaacc atacaaaata 120
caggatgata gcgataatct cttaaactta gcacttcaaa gctaccaacg ttccattgtt 180
gttcgtggca aatatgacct acaagtgggt tttctgttgg tctctttgtg gtttattctt 240
ttctcaaggg atcaagttct gaaagcaatg ttgaaaacca caaaatatgt ccaaactac 300
aagttcatac cactgattta tcaaattgat tctagacttt gcagctccat agatgctcag 360
gcttcattta actttcagat tgcgttaact tctctttttg 400

<210> 19044
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A9

<400> 19044
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ttcttgtgga tcggccagct acggcggcgg tggccacgaa acgatggaat taggtgcttc 120
tgtttccatg tctatcctgg aaaagctcgt ccagagctgt tcctttccag attcatggcg 180
ggggccgcca gacgctgagg tccaggctct cataggatat ctogaagagc tacggctctc 240

cgtcctggat ctttccaagg aggatgagga cgaggatgac tctgctacgt cgtcgtccac 300
gctgaagatg agcctgacga gccagttgca ggaactttgt tatgatgctg aggactatct 360
ggagatggcg cagcactccc gtggtggctg ctctctggcag atc 403

<210> 19045

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H11

<400> 19045

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gccgctcgct cctcctcctc ccagccgcag ctggctcgcg cggcggcggt cctggcagcg 120
gcgctgctgc tgctggcggc gggggccggg acggcgctcg cggcggtgag ctgcggcgag 180
gtgacgtcgt cggtggcgcc gtgcctcggg tacgcgatgg gcagcgcggc gtcgccctcc 240
gcggcgtgct gcagcggggg gcgctcgctc aacagccgcg cgtcgtcggc ggcggaccgg 300
caggccacct gcaactgcct caagagcatg acgggcccgc tcggcggcgg cgtcagcatg 360
gccaacgccg ccaacatccc cggcaagtgc ggcgtctccg tcggcgtgcc catcagcccc 420
ac 422

<210> 19046

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H12

<400> 19046

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agaagtaaac caccatatgc ctgaacagct tgcaacaatt gctaaggagc atgggggtat 120
cataagattt attcaagttt cttgcctaag ggcgtcaccg tcttctgaat ctagaatgtt 180
gaggacaaaa gctgcaggag agcaatcagt cttcaaagaa ttccctgagg ctacaatcat 240
gaggcctgct accatgattg gcacagaaga tcgaattctg aacagatggg cacaatttgc 300
aaagaattgg ggtttcctcc cgcttggttg tgggtgatct actaagattc agcctgtgta 360

tgtaatcgat gttgctgctg ctattgtgaa ctccctcaag gatgacggca ctagcatggg 420
 aaa 423

<210> 19047
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-H2
 <400> 19047

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 accgctgccg ctctcttctt gcacgcctgg gcagccgccc accgccggac caccagcacg 120
 taccgcacct tccttcaccc gccggcggtt gcgggtctccc cgacctcgcc gcctcctgca 180
 ccgcctctgc tcgccgagaa agccagcgcc gtctacccca ccagcacaga tgccgccggc 240
 gccatgtctt ccgccacgtt ccacttcccc gccgccggcg tgccgcgcgt gctctcctcc 300
 ctggagccgg gcaccacccc gttcgcggcg ctgcgcgcgc tcttctgggt ccggatcacc 360
 ggcgccggcg acggggagcg agagctcaca ctggcgctgg acttccgcaa gcggatgtac 420
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<210> 19048
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-H4
 <400> 19048

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 gtggacgaga tgtcgacgcc ggcgaggaag cggtgatgc gggacttcag gcgcctgcag 180
 caggacccgc ccgccgggat cagcggcgcg ccgcacgaca acaacatcat gctctggaac 240
 gccgtcatat tcgggccgga tgatacgccg tgggacggtg gcacgttcaa gcttaccttg 300
 cagtttacag aagattaccc aaacaagcca ccaactgttc gatttgtctc taggatgttt 360
 catccaaata tatatgctga tggaagcatc tgtttgata tcctacagaa ccagtggagt 420

cctatatatg

430

<210> 19049

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H5

<400> 19049

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cgacgacgac gaggacgggg aagaggtgcc tcagaactac cggtcgttcg gggcgggtggg 120
aaatgtatatt agaccaagga tcgggaggcg gaaccgtcgc cagcctcctg gagtgcacgt 180
cctgcaccct cagacaggac ccggcggctg aatgaagatg gagatgggtg agttcaggac 240
caaggaacct tgaaatggca aggtttccgt aagcttaatg aaaacaaggg ccggaacttg 300
gagaaaaggt ctaacgggcc ag 322

<210> 19050

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H6

<400> 19050

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gcatacgcg ctaggtcacc acagccgggg gtcgcggatc gctaggcaag cttgcgtcgc 120
gcgccctctc cgtcggcggg agatggcagc accagcagct tcgccggctc aacatccacg 180
aataccaggg tcgggagttg atggggaagt acggtatcaa cgtaccaggg ggtgcggcgg 240
cggggtccgt acaggaggtc aatgacgcct tgaagaacat gttccccagt gagaaagaga 300
tagttgttaa aagtcaaate cttgctggtg gccgagggtt gggaactttc aaaagtgggc 360
tgcaaggagg tgtccatatt gttaaggctg aggaagctga aagcattgca cgtaaaatgt 420
taggccagat tctggtaacg aaacaa 446

<210> 19051

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H7

<400> 19051

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cgccgggcgc gcgctgctgc tggcaaccgc ggccttcttc aggtcctcc tgggctccc 120
ctcccggggc ggcaagcgcc tgccgcccac catcccgggg gcgccggtga tcggcgggcct 180
cgtcaagttc atgcgcgggc ccatcccat gatccgggag cagtacgcc gcctcggcag 240
cgtcttcacc gtcccatca tcaccgcag gatcacgttc ctgctcgcc ctgaggtgtc 300
cgcgcacttc ttcaaggga acgaggcca gatgagccag caggaggtgt acaggttcaa 360
cgtgcccacg ttcggccccg gggctgtctt cgacgtcgac tactccgtca ggc 413

<210> 19052

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H9

<400> 19052

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gcgtaattat cgttgccatt aattggaaga ggtatgcct gtgtgccac ccgctccaca 120
tttgatagt ggtggactac accactgtct tcatcttgcg cctcctaata tttgttgata 180
atggtctcgc tgcaggaatg ggattagatc tcggatggca acagagatat gctcgttctt 240
gtggaagaat aattgtctc tcagttcttg cgctacttct ctaccactt ctctgggttt 300
ggactgtgat tggtaattg tggtttagca ctgcatgagg ctgctagcca gacgaaggac 360
aaacgtgggg cttcttgata tggctgcttt tcaagtact 399

<210> 19053

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A1

<400> 19053

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 tggagacaaa gccagtgggt ttcttgtcag aagtgaaaat atcaatgatg ctgtatggag 120
 agatataaca aatgaaatac tcagggatgc tgattattta ttcaaaataa ttgggaaggc 180
 atatgctatg ctttcagacc ctacaacgag aagggaatga taacctggag gtggagtgat 240
 agaaaagcag tgcacatgta acatgagcag cgggagcaat gaaaatgatg acaggacctc 300
 ttagtgagag catttaatca tgaagttggg accgcacaaa gcttccatac t 351

<210> 19054
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A10

<400> 19054

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 accgcgccga cgagcgacga caaccgttgc tgcattcttc aatggcgact gtgccagtta 120
 acccaaaacc ttctctgaac aacctgacgg ggaagcctgt aattgtcaaa ctcaagtggg 180
 gtatggagta caaaggttat cttgcttcgg tggactccta tatgaatctc cagcttgcca 240
 aactgagga gtacattgat gggcaattct ctggaaacct gggagagatt ctgatcaggt 300
 gcaacaacgt tatgtatctg cgaggtgttc cagaggatgc agagatagag gatgcagagt 360
 gagaagatgt gaatgtaatt tgattctgac atgtatgttt gaatatgccg gtgacaacta 420
 gacctatc 428

<210> 19055
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A2

<400> 19055

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 aggcttgtat atctctatgt atgcattgcc tgttcgttcg ctggaatcta ctacttgcag 120
 cggcctcgtc tcttcag 137

<210> 19056
 <211> 264
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-015-Q1-K1-A3

<400> 19056

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 tgggggtggt cagagttcct tgggctatct ctttggcagt gacgaagctc caaaatcatt 180
 tgagaagcct gcaccagttc aaaagccaac tcctncatcc tctgcagaga gactaaaaga 240
 tatcgctgct ggtattcaaa gtag 264

<210> 19057
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A4

<400> 19057

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 ctgccactgc ttgcttcac agatctagat gctgtaaatt tcaagaaatt ctgccttggt 180
 ttgaagaacc aatacctatg tctaggtcaa aatgccgaac cacgcgcgag gaacgctatg 240
 gcgctcctgc ttaacagtga gggatatct gggccacttt ccacggcctt gggcgccttc 300
 ttcaacttga gttacc 316

<210> 19058
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A5

<400> 19058

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aaatattctt cgtgacctta gacgaagtac ctggcctggc cacattgcat accgtgggtga 120
 ctaacacatc gtacaagttg atcattaaat ctgtattggg gagcaaaaca aagtgtctca 180
 gaatcgtatt gctcgggtgca caacttcttt agtcctgcgc atgtgatgcc acttctggaa 240
 atagtctgta ctcagcacac ttcaccacaa gttgttgctg acttgctgga tgttggggaag 300
 aagattaaaa agacaccaat agtcgtctgc aactgtactg gctttgcagt taataagatg 360
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<210> 19059
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-A6
 <400> 19059

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 actcagacct ctaagaaggg tcatctttta tgctttgtac aaccgcaaac tggcaagcat 180
 gaaagcaggc tactcgcaca aaaccgcttc acctttcgcg gacatgctgg cttttcgcaa 240
 ggtcaaagca aggcttggag gtcgtcttcg cttactgatt tc 282

<210> 19060
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-H10
 <400> 19060

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 ggcgggcggt gaggaggagg aggaggagga ggaaggctgt gctggtaata aggcggcgcc 180
 ggccaagaag cgaccgcggg gcagcgaggg gaagcaccg acgttccgcg gcgtgcggat 240
 gcgggcgtgg ggcaagtggg tgcggagat ccgcgagccg cgcaagaagt cgcgcatatg 300
 gtcgggcacg tccccaccg ccgagatggc cgcgcgcgcc cgcgacgtcg c 351

<210> 19061
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-015-Q1-K1-A7

<400> 19061

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cgccccctac ccccgcgccg ccgccccttct cctcccggcc ccgcgcgctcg ccgtccccgg 120
cgacgcaccg ccggcgccgc cggcactcca aaaaacataa gcccgggccc gcgcccggcg 180
cgacgccgca gggcgcggaac ttctccgccc tcccggcgga tctcgtccac cgggccccctg 240
cgggcgcgctg cgcctccgac cgtccggcgg ccagccgagc gtgccgcgc 289

<210> 19062
<211> 62
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-A8

<400> 19062

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cc 62

<210> 19063
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-F5

<400> 19063

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ggtcgacatg gtcgcgacgc aatctgccgt agcggtcgcc gtgggtggccg cgggtcgtgt 120
gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgccgggcagg tgagctccgc 180
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tagcggcgctc aggaacctca agagcgccgc cagcaccgcc gccgacaggc gcgccgcctg 300
 caactgcctc aagaacgccg ccagggggcgt cagcggcctc aacgcgggca acgccgncag 360
 catccctcc aagtgcggcg tcagcatccc ctacaccatc agcacctnca ccgactgctc 420
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<210> 19064
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-F6
 <400> 19064

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 agataattac ctgcacgttg accattccaa agcgatcatc agtgcagggtg gagcgaagca 180
 cctagtccag cttgtgtatt tcagcgagca ggtgggtcag attgcatcac tcacccttgt 240
 atgctacatt gcacacaatg tcccagacag cgaggagctg gcacaagcag aaatcctcac 300
 ggtgctcgaa tgggcttcca agcaagctta catgggtgaa gaccagtaa tagacaactt 360
 gttgccagaa gcaaagatca gattggaact gtatcaatct 400

<210> 19065
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-F7
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 gtttcttgca agttgctctt gcggtagttc cccaactgt caccatgcag aacgaggagg 120
 gtaagactgt ggacctctat gttcccagga agtgcctggc cacaacagg atcatcactg 180
 ccaaggacca tgctctctgc cagatcaaca ttggccactt ggatgcgaat ggctgtatg 240
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 gtccttggga caggctgtgg cagaagaaga aggctgatat caagcagtag attttacatc 360

tagtttacca agaattggac actgccttag ctatgttttg aattcatgtc actatatgca 420
atgttgatgat ttcagctg 438

<210> 19066
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F8

<400> 19066

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gcgaggccat tggtggcgca gctctcgcag cactcaccgg cacagggtgct caagaacttc 120
acgcacgtca agaaccttcg gatcgagctc ccctttgggg atttgggtac cggagaagga 180
agtcttcttg aatggccaac caaatattgg aaccacctt ggaaatgggg ggaccctggg 240
g 241

<210> 19067
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F9

<400> 19067

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tgccatccat gcataattcc aaaaatgcat ggcaccattg ttacggctaa ttgctcatcg 120
aatcaccagc gctcactttc aggttgctga aagagcgctc ttcattgtgga acagtgatca 180
cactagacaa cttgatagca cacaaccgcc atatgatcat gacacttggt gtttcagagc 240
tagagcagaa cattcagaat cactggaacc aaaccgacct gaatctggct gttgatgtca 300
ggtatatgat ctctgagatg gatggtgacc att 333

<210> 19068
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G1

<400> 19068

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gcttggtgtgc cgccttctcc gcccgcgccc actctggcta ccgggctagt ctgctgcgct 120
gctcggccga cgtcgatcat gcgagcttgt tcaactcgcct aggccggatc ataaatgaca 180
aggaccatac ctacgtgcag aacatcattt gccacttgta cgcgaatggc cagaactgat 240
gtgacttcac aacactcgtt acttactgga accttgccgc tcacg 285

<210> 19069

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G10

<400> 19069

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gtaggctagc agcagcagca gcaatggcct cggtgacgag gttcccggcc gtggccctcg 120
tcttgctgct cgcgcgcagc gccttcctgg ccagcgaggt ggcggcgtgc ggcggtgcc 180
cgaaaccaac tcttcctcct ccatcgccac cgccgcgcgc gccaccagc acgccgtgcc 240
ctccgcgcgc gtccagctcc ggcggaagt gcccgaaga cgcgctgaaa ctgggcgtgt 300
gcgccaacgt gctgggcctc gtcaagggtg ccatcgga ggtgccacc gactcgtgct 360
gcccaactgct ggacgggctc 380

<210> 19070

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G12

<400> 19070

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gggcaatggt aacccgattg gtgttaggag ttgttatgat gagggtaagc gtgtagcaga 120
gacgctgatg ttcgactatc acaggcagca tggcattgaa atccggattg ccaggatttt 180
caacacctat gggcctagga tgaacattga tgatggccgt gttgttagca acttcattgc 240

tcaggctgtg cgcggtgagc ccctgactgt ccagaggcca ggaacacaga ctaggagttt 300
 ctgctatgtt gccgatatgg ttgatggctt tattaagctg atgaatggaa acaagactgg 360
 accgattaac ttggggaacc caagtgaatt caccatgctg gaac 404

<210> 19071
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-G2
 <400> 19071

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 tgcgcgatgg aggcgtcgtc gtcggcgttg gcgctcgtgg ccgccgtgct cctcctctcc 180
 tccccgctcg ctgcgtcaga tttctgcgtg tgccgttcgg accagccgac ggcggtgctg 240
 cagaaggcga tcgacttcgc gtgcggcccc cagggcgggc ccgactgcac gccatcctg 300
 catggcgggc ggtgctacag cccggacacc gncgncgcgc actgcttctg tgctcgncaa 360
 cacctactac ca 372

<210> 19072
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G3
 <400> 19072

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 cgacaccaac cgcgcgggcg tgggtggggc gtatcaggag acctccatgc tcaccttcga 180
 gggccagaag ttccagggcc catccgccat tgccggcaag ctccagatctc ttcccttcca 240
 ggctgcgag caccagatcg ttaccgtcga ctgccagccg tcggggcccc agggaggcat 300
 gctcgtcttc gtctccgat ccatgcgcac cggccccgag gagcacccca tcaagtctc 360

tcaggcattc catttgatgc cggcagctgg gtccttcttc gagcagaatg acatgttccg 420
cctgaactat 430

<210> 19073
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-G4

<400> 19073

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gtttgacact gacctcatca agaaagtcag caccaactgt cttggcatgc aaaatcacao 120
attttgata tcaaccaagc catatcgaga gaacgatgca ctatcaagtt tcttcaaaat 180
cttgactaca tcacctgatg aaaacggcaa ggtctatttc tcaactgtac aagccaataa 240
ttattcaatc acttgacgc aatggcattc tgagaaagcc attttt 286

<210> 19074
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-G5

<400> 19074

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gcccattgcac ctactggatg atgcacccgg gcgtgatctg gggcctattc ggtttctggt 120
gcccgtggt gcggctgttc ggcccagagc cgccggtgcc gttcggggcac gacctaccg 180
taccggaggg gctggcgaac acgcgcgagg acggcatggg cgcgctctac cgcgagggca 240
cggcgctggt gctcaactcc atggtgaaca acaggttccc cttcacgacg caggaggtga 300
aggacgcatt cgggtgctgc ctcaactctg gtgacgacgg cgccgccgcg gcacaggcgc 360
gtctgttcaa gaaagcaaat gangggcacg tcacaggca gaactagcta ggcggcagtc 420
gccgtgtgta tg 432

<210> 19075
<211> 110

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G6
 <400> 19075
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 aggtggcaga ttccactatt tgcttgcac tatctaaatt atatggcggt 110

<210> 19076
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G7
 <400> 19076
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 gaggaacag caggcgggag cggcggcggc ggcgtcctcc gccgtgggct tcgaggacta 120
 cctgccggtg atggcggagc ggctgggcga ggacgggctg atgcgggagc tggcgagcgg 180
 gttccggctg ctgatggacc cggcgcgcgg gctcatcacc ttcgacagcc tccgccgcaa 240
 cgcccgctg ctgggcctgg gcggcatgtc ggacgccgac ctccgcggga tgctcgccga 300
 gggcgacttc gacggcgacg gcgcgctcag cgagacggag ttctgcgtcc tcatggtgcg 360

<210> 19077
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-G8
 <400> 19077
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 agagccaccc agacatgac attgcagttg ttgggtccct cggcaacatt ggcaagacct 180
 ttggtgctgc ctgcagtctg ctggttgga agaagcttga gaatctgcat gaagcactct 240
 cgaacaccag aactgatggc ggt 263

<210> 19078
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-F4

<400> 19078

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 aagataaata ttaaagagtt ttctgactct caaagtgcctg atggggagaa gaatcaaata 180
 atttggatca aattgaatat tgatcaaact ggattttata gagtgaagta tgatgatgaa 240
 cttgcagctg gacttgtaaa tgcaatcaaa gcaaagaagc tctcattaat ggataagatt 300
 ggtatcgtgg aagattcata tgcgctatct gttgcttgca agcaaact aacgtcattg 360
 ttgcgactgc tgaatgctta taatgatgag tctgattaca ctgtactntc acatgtaacc 420
 tctgtatgtt taagca 436

<210> 19079
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-G9

<400> 19079

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 atcttgctca ataccaatgg tggtccagga tttccgcca agaaggcaac ctactcatgc 180
 attcaaata acggaagga agtttttgc tttgctgtcc gatgctgccc acagtccatt 240
 gagaaggcac tccaagaagc tgggttgcc gcttacagta tcgactgggt gctgttacat 300
 caagctaata agcgtattat tgatgctgct gccagcagat tagatatccc atccgacaag 360
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 gat 423

<210> 19080

<211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-E2

 <400> 19080

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 tgttgttcct cgtcgtctc gacggcgtct agacgccat ccacgagggg acgctgtacg 180
 gaagcgccgg tggcacagtc accgtcaccg gccctggcca gctctccgtc gacggtctct 240
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 ccgacgcggc tgccgaaggc gtctgcgcgg cgtgcttcga gcggtgcggc gcggcccgcg 360
 tggatggcgc gcgcgaggtg tccgtgtact cgtgccgctc cgttgaagtg gaactct 417

<210> 19081
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-E3

 <400> 19081

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 actcatctat ggctaacaag taggcacatg gcacatcagt tccgaccaat acggctattg 120
 ttgtatccat ctgcttgctg aagttacaag acccgaaaaa taggaaattg gaagaagggc 180
 catggaggga agccgcagtg ttttgcatat attgcccacc ttcacctgag agaagatatc 240
 gggcgcgcaa taatgattag tgagcagtcc tgtatggagc ctgggtgcag cctctgccag 300
 tattaagtga tctacgtgtt atacattttt tatgttcatg aaacattgat ccattgataa 360
 aatatatcgt caggtggcaa ggggtcgatt tgggggaaaa tatcttacgc aatttattta 420
 ttt 423

<210> 19082
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-E4

<400> 19082

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cgccccgggc gcggccctgc gcccgtcggc gtctctcaag tcgtcgtegt cgtcgggcggc 120
ggccttcctt ggccactcta gccgcctcgg ccgcactgct accgcgtcgc cgacgaggcg 180
cagcctaaag gcggaggcca agggcgagtg gctcccgggc ctccctccc ccgcctacct 240
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gaacctgagg tggtagctgc aggcggagct ggtgaacggg cggtgggcga tgetgggcgt 360
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<210> 19083

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-014-Q1-K1-E5

<400> 19083

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tcggcaagct ggagtgtac cagccctct gtcctgcaa ggaccgcagc gctctgagaa 180
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tcgtcgcggt catgcccgc gagtactcgc tcgacaagca gatcctgctg cggtacctgg 360
gggccgattt ggtgttaacc gatcctgcgc ttggcttcca gggacagctc gacaagctgg 420
aacagctcan gaaagaaa 438

<210> 19084

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-E6

<400> 19084

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 gggttcctcgt cgtcctcgac ggcgctgaga cgcccatcca cgaggggacg ctgtacggaa 180
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 agggcgcgcg cgaggtgtcc gtgtcctcgt gcccgccgt ggaggtggag cgcg 414

<210> 19085
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-E7
 <400> 19085

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 gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggttc 240
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 ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcgcg 360
 ggcgggcgcg ggtacggtgg tggccgtgga ggcgggcggt acggcggtgg cggcgccgt 420
 gatggcgcg gc 432

<210> 19086
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-E9
 <400> 19086

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cgaaacaagg atctcagtc tggaaaaact actgtgctcc taagaatggt atccccaagg 180
aggcaaagga ttacttgcag catgaagaat tacctatggt ggtgctagat catgccaaga 240
acaccagtga taaatcaagc tcatattcaa gttcagctga tgaagttggt ctaactggag 300
tcatcaacaa ctatgcaact gaaggaaatg agaggtcaca acctgatatt gaagtagcaa 360
cgtcagtatc tcgcaac 377

<210> 19087
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-F10

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c 421

<210> 19088
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-014-Q1-K1-F11

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actccgaggg cgacgcgctc tcggcgctgc gccgcagcct cagggacccc ggcggcgctgc 240
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 gcgacaaccg cgtcaccn ctagatcttg gtaatttgaa cttatctggt catctgggtgc 360
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<210> 19089

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F12

<400> 19089

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 tattctcata ccgtcattag tggatcattg aatttttctg taagaagggtt attgcaatgc 180
 accttctctg gccatgaata acacaaagga gacctgctt 219

<210> 19090

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F2

<400> 19090

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 cggaagggga agatactgtc ggaatcggca tcttcccctc cagtccctgg ctctaccacc 120
 agcagcgacc gttgtcgaag gaggcctggg ttggggggaa gtgccgaacc ggaagacgta 180
 aaggcgtctt ccaatcttcc aaccccctgg ggttgccact gtgcctagtc tctagttagt 240
 cgagaacctt aaaatgggtt aaataaacac atgggagtcc aagaagattc taggccttcc 300
 ggggccctgg gtggcctata cagggtacag tttgtgggcc ggtcaatata cagtgatgac 360
 gaagcagtca agactagcat tatggattc 389

<210> 19091

<211> 418

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-F3

 <400> 19091

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 cagcggcgct gctgctgctg gcggcggggg ccgggacggc gtcggcggcg gtgagctgcg 180
 gcgaggtgac gtcgtcggtg gcgccgtgcc tcgggtacgc gatgggcagc gcggcgctgc 240
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 accggcaggc cacctgcaac tgctcaaga gcatgacggg ccggctcggc ggccggcgta 360
 gcatggccaa cgccgccaac atccccggca agtgcgggct ctccgtcggc gtgcccatt 418

<210> 19092
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-E11

 <400> 19092

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 agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180
 acaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
 agcacctcgg cgaggccggc gccatcgccg ccggcgccct cgcaactctac gagaagcacg 300
 aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag gtcgctgccg 360
 cggcgccggt ccgcgccggc ggctacgtat tccacgagca ccacgagaag aagaaggacc 420
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<210> 19093
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-C5

<400> 19093

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tccaaggagg aagaaattcc catogaagaa ttgagaaaa ggaatttcac ctatctactg 180
aatgagcacc gctccatcgg tggctaccag tgccgtgttcg ctgtggatgg attctccaga 240
gtaaaactta cgccccaaat cccccgcctc tctctggtga aagaacccaa ggtgtttgca 300
catgggaata cgagagaccc tgacattctt tcaactgagtt ggcccgggtg tccttgaggg 360
catggggaca ccggacaccc agattcctgt ggcaggacca ctaactgcca gcagtgaaga 420
tgtgtttgag tcagtccgcg tgacaca 447

<210> 19094

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C7

<400> 19094

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tcgatccaca tcggccaggc cggatatccag gtcggaaacg cgtgctggga gctgtactgc 180
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gataatactc tcaacacctt ctttagagag actctcgctc tgaaacacgt gccccgtgct 300
gtgtttgttg acctttagcc cactgtcatc gatgaggtga ggactggcac ctatcgccag 360
ctctctcata ttct 374

<210> 19095

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C9

<400> 19095

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 gccccgccga cgccgcctca ggctcccggg gccctctcgc cggtacacta cccggccgcg 180
 acgacgacga cacacgcgac tgcagggcgc gtttcgccat cgaatctccc ttcttcgccg 240
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 tgagtgg 427

<210> 19096

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D1

<400> 19096

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 cccccggcc ccggccaccg caccggccgc caccaccacc ccaccggcga ccccgcccaa 180
 gaagacgccc gcgccagccg cggcgccgcc caccaccccc gccaccctgg ccccgccgcg 240
 cgcgccgtcc accaccctg ccacccccga 270

<210> 19097

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D10

<400> 19097

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 catcatgagg acgcacatga ccacgaggag tttgagttcg gtgaagtttt tgttcaccaa 180
 ctgattcaca cgatagaatt tgttctgggt gcagtctcaa acaccgcttc ataccttcgt 240
 ctttgggctc tgagtcttgc aactctgag ttgtccactg tattctacga gaaagtacta 300

atgacggcat atgggttttaa caatgttttc atccttatta ttggtgtcgt catcttcac 360
 tttgccacga ttggtgtcctt gcttggtatg gagaccctga gtgcattcct tcacgcgctg 420
 aggcttcact gggtgga 437

<210> 19098
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-D11
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 acggccctcg tgtggtcggc ggtgggtggcg gtcgcgactg tgggtgtcgcg ggcgcacatcat 180
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 gtgagcaagg ctgtgtccgg taacccttgc gtggtctgtg gcctactgcg cctgcactta 300
 cacgactgct tcgtcagggg gtgcgactcg tcggtgctgc ttgactcgta tgcgggcaac 360
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<210> 19099
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-D12
 <400> 19099

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 gccaccgcgg cgacagcggg tgccagggcg cttctacac ctacgacgcc ttcattcgagg 180
 ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc agggcgggagc 240
 tcgccgcctt cttcggccag acgtcccacg aaaccaccgg tggatggggcg actgctccgg 300
 atggaccgtt tgcctgggga tactgccggg tgaaggaaca gaaacagacg gaccaccct 360
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<210> 19100
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D2

<400> 19100

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cogatctttt ctactactgc tccttccaca tgctctcatt cgacgagctc accctgcaac 120
ttgatacctc ccattctacag ttcctgatgg agatcgccaa cccctt 166

<210> 19101
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D3

<400> 19101

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gtcactatca acttccgggc tgatcgcatg gttatgcttg cgaaagcact agagtatgca 180
gattttaaca actttgaccg tgtacgtgtc cccaaaattc gatatgctgg gatgcttcag 240
tatgatggtg agttgaagct tccaagtcgc taccttgttt ccccaccaga gatagataga 300
acatctgggg agtacttggg gaagaatggc atccgcacct ttgcttgagc tgagacagtg 360
aaatttggcc atgtcacatt tttctggaac ggcaaccgct cgggatactt tgatgaaact 420
aaggaagagt atgtaga 437

<210> 19102
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-D4

<400> 19102

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tactggagct gattttgaga atgaaagcta tcttcggcat actgggttatt tttctgagga 120
gcagacttct tctgacttcg ttgagaagca agtaactgag tcttcagaga gggaatgctc 180
agaaagtgag actgaagagg atgctgaact tctgcaaaat gcaagtgtga ttctacctat 240
agaatcacat gctcctgata cgtattctgt tccaatatat gagaagttca agcatgtgga 300
ttatgggtgac aatgaggtgg cctattctaa ttatatgcc cagttgaatg aatctgagga 360
agaggatggg tcttctgagc tgggtgtctc tcagtggcac atgaaaggta aacgtaacaa 420
tcgtaatgcc acaaagaga 439

<210> 19103
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-014-Q1-K1-D5
<400> 19103

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ataaagtctg cctgctcggg tgtgggtgtc ctactgggtc tggagcgggt tggaatactg 180
caaagggtga atctgggtca gttgttgctg tttttggcct tggaacagtt ggacttgcag 240
ttgctgaggg agcaaaagct gctgggtgct ctcgagttat tggcattgac atcgacaata 300
aaaagtttga tgttgcaaag aactttggag ttacagaatt tggttaacca aaagagcatg 360
acaaaccgat acagcaagtc ctggtcgata ttacaaatgg cggcgtggat tacagctttg 420
agtgcattgg aaat 434

<210> 19104
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-014-Q1-K1-D7
<400> 19104

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atgctctgcy gctcgggtcac cttcatgctc ggcttcttcc tcatgccttg ggttgctcggg 120

ctcgggtttcc tcttctctt cgtcggcttc atcaccaacc tctccgggat ctggagggac 180
atcatcctct ggccctccgt cgcgtgctcc gcatcggact cacccaagga ggcacctcc 240
ccatggcata tgttttccaa gccttcatcc atgtcgacgt gaagccaagt acaaagtaag 300
gctcccacgg aggtccacag aagcagggag ttgctggagc agcagccatt gccaacctat 360
attttccttc ctggacaacc cttcttttac atgtgacacc gtagcaagtt gccagtttt 420
aatgggtttt g 431

<210> 19105
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-014-Q1-K1-D8
<400> 19105

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tcttcggcat actggttatt tctctgagga gcagacttct tctgacttcg ttgaacaagc 120
aagtaactga gtcttcagag agggaatgct cagaaagtga gactgaagag gatgctgaac 180
ttctgcaaaa tgcaagtgtg attctaccta tagaatcaca tgctcctgat ccgtattctg 240
ttccaatata tgaaaagttc aagcatgtgc attatgggtga caatgaggtg gcctattcta 300
attatatgcc ccagttgaat gaatcttaag cagacgatag ttcttctgag ctgggtgcct 360
ttcagtggca cat 373

<210> 19106
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-014-Q1-K1-D9
<400> 19106

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tggtggcggc cgcgacgggt gtgtcgcggg cgcagcagct gcaggtgggg ttctacgaca 180
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accccggcgt cgccgcgggc ctctgcgcc tccaattgca cgactgcttc gtcagggggt 300
 gcgacgcgtc ggtgctgctg gactcgtcgg cgggcaacca ggcgagagaag gacgcggcgc 360
 ccaacgccag cctgcgcggg ttcgaggtca tcgacagcgc caagacgcgg ctggagcagg 420
 cctgct 426

<210> 19107
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-C3
 <400> 19107

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 tggagatact ccaaggagga agaaattccc atcgaagaat ttgagaaaag gaatttcacc 180
 tatctactga atgagcaccg ctccatcgggt ggctaccagt gcctgttcgc tgtggatgga 240
 ttctccagag taaaacttac gcccacaaatc cccccgctct ctctggtgaa agaaccacaaa 300
 gtgtttgcac atgggaatac gagagaccct gacattcttt cactgagttg gcccggttgt 360
 ccttgaaggc atggggacac cggacaccca aattcctgtg gcatgaccac taactgccaa 420
 cagtgaaaat gtgtttg 437

<210> 19108
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-B10
 <400> 19108

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 aagatggaaa aatggaacga gctggttttc ttgaggcctg gaaatctttg cctgatgaca 180
 atgaatttac aaaggaattc cggggctctg tcatacagcag catagatgct actgttgagc 240
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tgtatctctc cgcaagatg ccccgaggaa tccccttcct tatagaggtt acagccgtgg 360
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<210> 19109
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B11

<400> 19109

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 aacaaccatg tcgactcatg agaggaaagc cagcatcaaa gaattctatg ctgtgatatt 240
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 cgtatgcatg gagaagtaca gaaagaaaga tgacgatgga cgggacacct tatctgatat 360
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<210> 19110
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-B12

<400> 19110

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 gctgggactg cctgcagctg gaggaccacg acgacgacga ccaccgaagg tgggacgtcn 360
 gcgtcagcg 369

<210> 19111
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B2

<400> 19111

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ccgtggccgt ggccaccccg cgcgcggcg gcggcccat ccgcgcgtcc atctcctccc 180
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tgatcgtggg cgccgggtcc gcgggcctgt cctgcgcgta cgagctgtcc aaggacccca 360
ccgtgagcgt ggccatcgtg gagcagtcgg tgtccccggg cggcggcgcg tggctgggcg 420
ggca 424
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<210> 19112
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B3

<400> 19112

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gcgcttcagc gttcttcgtg acgcatacac tgcaggggct ggcgagggat ggcagccgga 180
ccgtcgtagc ttcggtccac cagccgagca gcgacgtctt cttgctgttc gactgcctct 240
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gcataaact 369
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<210> 19113
 <211> 434
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B4

<400> 19113

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agagcaacta caactttgag aaacctttcc tgtacctcgc aaggaagctg gctggtgatc 180
cgaaccttca ctttgttgaa gctgttgctc ttaagcctcc ggaagttacc atcgacatgg 240
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acgatgatga tctgattgag tagaaaggat catgagtctt gaacttgagc aggagttgtg 360
ccttgcggtg ttttaagttgt tctaggggtga actcttgagt tctcattgtc tggatcatct 420
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<210> 19114

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B5

<400> 19114

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tg 422

<210> 19115

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B6

<400> 19115

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tggtagagctg cacaaggtag ttgaacttct agaccgagca tctttgaaac acagcgtgtt 180
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gcttcttgcc ttggttcttt cctctggaac tatgcacaag atcatcacag aagatgcata 420
ctctaaaatt ttctcttaca tat 443

<210> 19116

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B7

<400> 19116

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gagatgagaa gatataggag aatagttggg tctcttgagg gctcttgttt atcagctgcc 180
atcccacttc tctcttccaa taaggaaaca gcatgccttg tggcccttga cattgtggag 240
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gccaccgaag atgttgatga aaataggcta ctcccagcaa tgaacaaact gtggccttac 420
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<210> 19117

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-B9

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ccgatgttat tgcgaagctt ggcttcaaaa tgttcttggg tgtgactgca actgtgacca 360
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<210> 19118

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C10

<400> 19118

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acagcacatc attggacggg ctggtggcta tctgccttat gctgggtggc ttacaatcgt 120
catgacggag aaaccagtcc tcaagtatct gctaattggg gcaactggggc tgctgggtgg 180
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gggaaa 246

<210> 19119

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-C11

<400> 19119

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aagcttgcca taagtgaac atatcagaaa acagatacag atttcttgga atcagaagca 180
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 ctttcagaag atcacaaacc taacagaatt gatgagcgaa agagaattga aaatgctggt 360
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 t 421

<210> 19120
 <211> 411
 <212> DNA
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 tcgcggcggc ggcggctctg gcagcggcgc tgctgctgct ggcggcggtg gccgggacgg 180
 cgtcggcggc ggtgagctgc ggcgaggtga cgtcgctcgtt ggcgccgtgc ctcggggtacg 240
 cgatgggcag cgcggcgctc cctccgcgg cgctgctgag cggggtgcgc tcgctcaaca 300
 gccgcgcgtc gtccgcggcg gaccggcaag ccacctgcaa ctgcctcaag agcatgacgg 360
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<210> 19121
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-014-Q1-K1-C2
 <400> 19121

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 agagaagaat tataatacct ccagagcttg gtcctcctgt tgggccttcg acgttcttca 120
 gtgcgaagca gttcgaagtg ttcgatgtgg agttactggc ggtgcaggac tgccagcgga 180
 ggacgatagc attttactct gatgtcgtgt gcagctgaac ttcggtttgt ctagtcttcc 240
 gcctatggca catcgcagca gcatcctgca cttttggctg ctggtctgag ttgccgtcca 300
 attgtgtgta tgtatatagc cagctgttgt tactgcccgt actgatgatg ggcaatggta 360

gtgtgttatt agttcattnt tgtcttgaat ctctgatgg cgggatatgc gcatttggtg 420
tgtctgttta gaagtt 436

<210> 19122
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A8

<400> 19122

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ggggaccga cccctggctg acgacgtgct ggcaaacct cctcctagtc ctctcgcaga 120
aggaggctgt gttcttttct tcatcggcgc ggcaacagcg aaagcttctc ggtctctccc 180
accgctgctc cgccgttttg gtggttcgc gccttgcccg cgcgggttg atccgagctc 240
cgtgcagcag ctccgccgag atacgtatcg cataggattc cactggattc agctgctgag 300
cagggactg gaagggtgat ttgatactag ctctgaacag ccagtagaat ttctcaaata 360
ctgtccagga tcatggcttc tctctgcgat ttctgtggga aacaaaggtc aatgatctac 420
t 421

<210> 19123
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H10

<400> 19123

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cggcaagatc caaaattaat tgtccctgc ccgcgcgcgt cggggccggg cgcaaagcgg 120
caaagggatc atcggatggc ggtgttcgca ggggcacggg cacggccgct gctgggcgcc 180
ctgctgcttt cagcgtcct gctcacggtc acggccgccg acagccagaa caaccctgcc 240
gaccagctcg ttgactgat caacagcaac cgtaccgcc gcaagtccgc ttccgtttct 300
gacaaccaag gcttgggatg catcgtctg cagtacatca aagcgtacga aggtcactgt 360
gaccaggtgg acgacaagaa gccgatggag tcgagtttca cggacacgtt cgccccgacc 420

tgtggcg

427

<210> 19124
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H11

<400> 19124

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tggcgtecca gcagggagtc gtgatcgctg gccacagcaa ggctgagttt gacgcccaca 120
tgaccaaggc ccaggaagcc ggcaagctgg tggtcattga cttcactgcc gcttgggtgcg 180
gtccatgccg cgccatcgcc cactgttcg tcgaacacgc caagaagttc actcaggctcg 240
tgttctgaa ggtggacgtg gacgaagtga aggaagtcac cgcggcctac gaggtcgagg 300
cgatgccgac cttccacttc gtcaagaacg gcaagacggt cgcgaccatc gtgggtgcc 360
ggaaggacga gctcctggcc cagatcgaga agcatgctgc gctgcgctt gcgtctgcgt 420
ctgcctaaag gagatcagat cagtcgtcgc cg 452

<210> 19125
<211> 205
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-H12

<400> 19125

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ctagctcggg cggcagcagg cagccatcat gtcggaggag aagcaccacc acttcttcaa 120
ccaccacaag aaggacgagg agcagcccgc cggcgagtac gggactccg agaccgaggt 180
ggtcaccgnc accggcgagg gcgag 205

<210> 19126
<211> 481
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-H2

<400> 19126

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gagttgttgc agaaggatgg cgagttgcag aagaggcaga ctgaatcgct gaggcagcaa 120
tgcaattgca ctctccattg aaagttatgc aagattaagg acatggaagg agtttttcag 180
cttctttggc ggattagcta tttttttcca acaccaaggg aggaaaacca gattgagttc 240
taggaatgag aactggcata tgaaaatgat tgagaacata tatagtgtat agaccatagt 300
gttcgtcctt tataccaatg gtgagctgca cagttcatcc aaagtgatcg gtgggaactt 360
cattggtgac aatgcaaagc gcagaagtca aaacgtaaaa gatggcgcca tatggttata 420
agctcctaatt ttctgagtga ttntgcagtg gcagtttgca tgagtacctg actatctgta 480
g 481

<210> 19127
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H4

<400> 19127

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cacgctgggc acccgcaagt tcatgaccaa ccgcctcctg gcccgcaagc aattcgtgct 120
tgaggtgatc caccgcggcc gcgccaacgt ctccaaggcg gagttgaagg agaggcttgc 180
caaggcgtac gaggtgaagg accccaacac catctttgtc ttcaagttcc gcaccactt 240
cggaggagga aagtccactg gtttcggcct catctacgac aacctcgagg ctgccaagaa 300
gttcgagccg aaataccgcc tcatcaggaa tggctcttgc actaagggtg agaagtcccg 360
caagcaaagc aaggagcgga agaacagggc caagaagatc cgtggtgtca agaagaccaa 420
agctggtgac gcctggaaga tgtaaactgt cgtttacatt tgtatt 466

<210> 19128
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H5

<400> 19128

cccacgcgtc cgcacagaca agtgggtttcc aaagccaagt gtgtgtacta gcaaccagct 60
agctggggcg gcagcaggca gccatcatgt cggaggagaa gcaccaccac ttcttcaacc 120
accacaagaa ggacgaggag cagcccgcgc gcgagtacgg gtactccgag accgaggtgg 180
tcaccgccac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
acaagcagca cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga 300
agcacgagggc gaagaaggac cccgagcacg cgcacaggca caagatcacg gaagaggctg 360
ctgccgcggc ggccgtcggc gccggcggct acgtattcca cgagcaccac gagaagaaga 420
agaccacaag gacgccgagg aggccagcgg cgag 454

<210> 19129

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H6

<400> 19129

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gcagttttac ctcaacctgg ccttggatag attgatatta cagattgtaa gttgtcaact 120
gtggtttgtc tatatctgga tgatgttttg agggaaggag catgccagaa ggatgccaca 180
ttgaggccaa ttaagtgcta gtcatttagg aattgagctt ccggaaaaga atttgaagtg 240
tacttagata caatggtgtc accaactata ctcttttctt cctcttctct ctcgtttttag 300
gacggcatgt gatagctgca atgtgatctt atctgattca taggacgacg ccatatagaa 360
atgtcaagca tcgttttttc ctgtaattac atcaaattgg ccagttgtca ttgtgtatac 420
ttagtctatg taaagtatat caattcatat tttatgac 458

<210> 19130

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H7

<400> 19130

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gccgtggcgc cagcggcggc ggagagcgca aggaatccga gcggtcactc gccaaaggtca 120
tggggcagac ggaggagcag ttggtgccgg aggcaggccc ggctcgggc cccgccccca 180
gtcctccaa gcaaggggac gccgacacgc cggccggcct cgacgccgac ctggaggcgc 240
tcctgcagcc gcacggggcg ttgctcggcc gccgagccgg ccggcagtgg aggcccgcg 300
tgcaaagcat cgccgaaggc aaagggtaaa ggggggc 337

<210> 19131

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-H8

<400> 19131

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tgtatcctac ctaatctgcg ccttccacaa caaccatttt ctactggaga agcgtggtgc 120
tttgatagtc cgtcgctctt gcgttcttct gggtgctgaa aaagtatatc gtgagttctc 180
cactattctt gagagtgaag ttgaccttga ttttgcattc gtcattggttc aggccttgaa 240
tttgattttg ctcacatcaa ctgaacttgg tgagctccgc tctcttctta agaagtcggt 300
agtggattcc tgtggcaagg acttgtttca gtcattatat gcttcgtggc gccactctcc 360
gatggctaca ataagtttgt gtttacttgc tcaggcatac agtcatgcga gctgtgttat 420
tcagtcgctg ggagaagaag acataaatgt gaaatttttg gttcagttag ataaattg 478

<210> 19132

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A10

<400> 19132

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gctcctccgc ctgccagccg cagctggtcg cggggcgggc ggtcctggca gcggcgctgc 120

tgctgctggc ggcgggggcc gggacggcgt cggcggcggc gagctgcggc gaggtgacgt 180
 cgctcgggtggc gccgtgcctc ggggtacgca tgggcagcgc ggcgtcgccc tccgcggcgt 240
 gctgcagcgg ggtgcgctcg ctcaacagcc gcgcgtcgtc ggcggcggac cggcaggcca 300
 cctgcaactg cctcaagagc atgacggggc ggcttggcgg ggcgctcagc atggccaacg 360
 ccgtcaacat ccccggaag tgcggcgtct ccgtcggcgt 400

<210> 19133

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A11

<400> 19133

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 ttctcgttta caaatctgtc aagtggccaa aatgctttca ccggtctgac tggaactgga 120
 ttttcaagca cgctattctc gtttggctca gcctctacag atggcccaag tactggtccc 180
 ctgttcgggc tgaaagctga tggttcttcg ttcccttcct ttagtcttgg tgctgccagc 240
 aacgggagtt ccgccacagt gcttgctacc tcagcagaag cacccaagaa atttgctatg 300
 gcagaaggcc ctgtcgaaac cggcgaagaa aacgagaagg ctgtatttac tgccgattct 360
 gccttgtagt agtacctaga tgggggctgg aaagaaagag gaaaagggtga actgaagctg 420
 aacg 424

<210> 19134

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A4

<400> 19134

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 gaacagacgg cggctagcac tagcagcggc gagcatcagg agaggagcgt cgtcaggagc 120
 aggcggctac agccgggtggg ggagaacgag gaggcggggg aggaggagga ggagttcagg 180
 gacatccacg cgctgagccc gccgctgagc cagccttcgt cgtaccgccg ga 232

<210> 19135
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-014-Q1-K1-A7

 <400> 19135

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ttcggaccgt agagagagtg agggatcgcc gacccgatcc tttcttcac ctcgatggcc   60
gctgtttccg acaggatggt tctcacgagg acggagtacg accgtggggt gaacaccttc  120
tctccggagg ggcggctgtt ccaggtcgag tacgccatcg aggccatcaa gttgggatcc  180
actgcgatcg gtttgaagac aaaggatggt gttgtcctcg ccgttgagaa acgtgtgacc  240
tcaccactgc tggaaccaag cagtgtggaa aaaataatgg aaattgatga gcacataggc  300
tgtgccatga gtggacttat tgctgatgct agaacactag tggaacatgc tcgtgttgaa  360
actcagaatc ataggttctc atacggagag ccaatgactg tagaatcttc gacacaagct  420
atc                                                                    423
  
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<210> 19136
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-H1

 <400> 19136

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ggcaggccac aaaggatgct ggggtgattg ctggcctcaa tgtgctgcgt atcatcaatg   60
agcggggcgc tgctgctatt gcctatggtc ttgacaagaa ggcaaccagt gtcggtgaga  120
agaatgtcct catttttgac cttggagggtg gtaccttcga tgtctccctc cttacaattg  180
aggaaggatc ctttgaagtc aaggccacag ctggcgacac ccatcttggt ggtgaggact  240
ttgacaacag gatggttaac cactttgtcc aggagttcaa gagaaagaac aagaaagata  300
tcactggcaa cccg                                                                    314
  
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<210> 19137
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F4

<400> 19137

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cgacatcgac atgctcaaag gtcacatgcg caagtcgctc gcgccgttcc cgcaaggctg 120
cttctactcc aacgccctcg gagggctcaa gtgctacgag aaccccaagc acaaggctcac 180
cgctgtcccc gccgacgaag aagagatctg cggtgccact ttcaagggtg tggaagggtc 240
tactgtcctg acggcgctgc actgatcgat catcagctgg cggaggcgat gcgacgatga 300
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ctcatgcaaa ccgatgaatc tatctctgta tcatgcatcg atctcggttg cttgctagtc 420
ccgactccag actccagaca tggctatata tagctggtgc taata 465

<210> 19138

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F5

<400> 19138

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gcgtggcggtt ccacggggag cggggcgctc tggaccgcct gctctccgtg gtcacctacg 120
ggcagccgcg cgtgggcgac aagggtgttcg cgggctacgt gcgcgccaac gtgcccgtgg 180
agccgctccg ggtggtgtac cgctacgacg tgggtcccgc cgtgcccttc gacgcgccgc 240
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gcgagatcgc caagggcggc gacgcgcca acaagaacta cttcgacccc aggtacctgc 360
tgtccatgta cggcaacgcg tggggggacc ttttcaaggc cgccttcctg tgggccaagg 420
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<210> 19139

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F7

<400> 19139

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agaacatgac aaatacaaaa aggcataagg ggttccttgt ctatgccttc tatgcatatg 180
caaaacgcat ccgaacagat attcgcagat ttctcttcca caagcaaact cgccctcctc 240
tcctttcagg agaactgcct cactgtgccc aaacggggccc ttttaatttcc cttgccattc 300
tcagtccaca cgctgtccca cgagttaact ttcggcgccct caacaagctg ctggcctcgt 360
ccctccgatg atggagctcc tggggccctta acaccgctct tcttttggtt tcttttgatc 420
cccagcaaac gtagaacaaa tcttgcaagc tcaccataaa gcattccagc ccgatcac 478

<210> 19140

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F8

<400> 19140

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gccatgatgc tgcgcgcggc gggcaggcga ctccctcggcg taggaggcgg cgatccagcg 180
cccgcggtcg ctgctgctgt ggcggcgagc aggagcagag gataccacga gcgggtggtg 240
gaccactaca acaaccgcg caacgtgggg tccttggaaca aggacgacac ggacgtcgga 300
acgggggatcg tcggcgcgcc ggcgtgcggg gacgtcatga agctgcagat ccgcgtcgac 360
gaggggtccg gcaggatcgt cgacgcgcgc tt 392

<210> 19141

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F9

<400> 19141

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cgctccgcag ccgtgggcca catcccgcgc ccgaacccgt ccgcgcgcgc gctgcgcgag 120
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ggccaagggg gccgcgctca agaagaaact cgcggcgggc aacaacccgc ggaaccggcg 240
ccaacaacac gtcccggcct tcaagcagaa cgcggcgcgc ccgacggcgg aactcttcaa 300
caactgcgcc gagcaagccc gcgcggcgac gccggccttc gcggggcacc tcgggcacct 360
gatgcccccc ggcg 375

<210> 19142
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G1

<400> 19142

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agactgtgcc tacccaactg ggaattcact cgtcgagcct tacactgctg gccataacat 180
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tcgtggtgac tacccttct ccatgagatc attggctagg gaacgactac ctttcttcaa 420
ggacgagcaa aaggagaagc tcgccggttc ctataacat 459

<210> 19143
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G10

<400> 19143

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cttccagcat tgctaacagt agggcaatgc gttgacagcc attgattttt ttttcttttt 360
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<210> 19144
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-G2

<400> 19144

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gcgtcctctt cttggctctc aacctcctgt tcttcacagt ggccaacgcc tgcggcagct 180
gcccgaaccc aacgccgccg gtcgtgccac cgccgccgcc tctgctgct accccacccc 240
cttcattcatc cagtgggaag tgcccgtga acgcgtcaa gtccggcgtg tgcgtcaatg 300
tgctcggcct cgtcaaaggc gaggctggca aggtaccagc tgagccatgc tgcaacctca 360
tcaaaggcct tgcagacttc gagggcgncc tctgcctctg cacggccatc aagggcaacg 420
tnctcggcgt cgtcttcgat gtccctatca agttcaatgc cctcg 465

<210> 19145
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G3

<400> 19145

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tgtcgtcct catcgtctcc tgcgccgcgc agtcgccgta cgcgtcgaag gctcctccgc 180

tcagcgccctc ggcgcggggg ggctctgtcg cgccaccgac aacggcggtc tcggcgccgc 240
 aggcgtctgc acagccgcgc acaacagtcg ccgcgtctgg gcctcaggcc tcggccgtag 300
 caccaacaaa agcagccttg gcgccacagg cctctgtctg gccgccaact acagctgcct 360
 cgccgcagct ggctgccacg ttggccccgg tttcctcacc gccactagct gctgctgcgc 420
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<210> 19146
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-G4
 <400> 19146

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 gtgggaccgg atgagcagcc ccgcgtgccc cgaggacgag ttccgcgcgc cttccgcat 180
 gtcccggggc accttcgagg ccgtgtgcga ggagctgggc gccgcgctcg ccaaggagga 240
 caccatgctg cgcgccgnca tccccgtccg ccagcgcgtg gccgtctgca tctggcgccct 300
 cgccaccggg gagccgctcc gcctcgtgtc caagcgcttc ggctcggca tctccacctg 360
 ccacaagctc gtctcagagg tctgcgccgn catcaaggcc gtgctcatgc ccaaggccgt 420
 gcagtggccc gaggcgcccg 440

<210> 19147
 <211> 108
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-G5
 <400> 19147

ggagagcgtt ggtgtttagg accgcatgca ttcagaagct ctctgtgctg ctggccagat 60
 gtgtcgttcg ttgtatcatg tatgggtgtt tctggctttc gttctggg 108

<210> 19148
 <211> 445

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-G6

<400> 19148

cggacgcgtg ggcggacgcg tgggcacagc ggcctcggg ggaggacgtg ctgtggaacc 60
 tgcgagttcg cgcgccaggt gcaggacgac tgggaggcgg atgcctggag cagcggcgga 120
 ggaagcccag tgtcgtcgtc gtccagaccc accaggccgt ctcggctaca cttgagcaga 180
 tagatgatca ggtgcttcac caatctccag taaagcgggc acatgatcta cccatagtct 240
 accgggggaca aggatctaaa gatgggaaat gctggtcagc ctacagtaca gcactctgct 300
 ctgatgggat gctgaaaccc acagcaggat cagctcactg aaaactgtcc cccctgtggt 360
 gcagactaat gtgctntgcg ctggtgcaga ctaatgtgct ttgcgccact gtagagttct 420
 ttttgggggtt ctcttataat aacgt 445

<210> 19149
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-G7

<400> 19149

ggatgatggc ttcctctagt cctcagcgtg cagcggggcg cgcctcgcc ggcgtgctgc 60
 tgggtggcggc tgccgcgctg tgctcgtgcg gcgccatggc gcagctgacc gcggactact 120
 acgactgcac atgccctgac gcttacaaca tcgtgaagca ggtcctgac gaggcgcaca 180
 agtccgacgt gcgcatctac gccagcctca cccgcctcca cttccacgac tgcttcgtcc 240
 agggctgcga tggctcgggtg ctctggagc cgttccggg ggtggccaac tccactgaga 300
 agctggcgcc ggccaacaac aactcggcg gggggttccc ggtgggtggac aaagtgaagg 360
 cggcgctgga ggacgcctgc cccggcgctg tctcctgcgc cgacatcctc gccctcgccg 420
 cagagatctc ggtcgagctg tccggaggac caaaaggggc agtgcttctt ggg 473

<210> 19150
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-G9

<400> 19150

atcgaggcgg ggatatacat gctgcactgt ctacctctca ggctgggctcg agccgaggggt 60
gcaccgacca gatgcacccct catcaagtga tcgttcctcg gccgtcctgc tcttgctgcc 120
ttgctggagg tggcgacact ggaccatgcc agctgagctg gtgctccgtc gtgggtcgtg 180
gccaatattt ggctcgcatg cagtcgtcga tctatatgga acagaacact gcatgcctat 240
gtagatacgc ttgtatggac aataaaggaa ccgcagtact tctgtcgatg aaatactttt 300
gggtgagctg gtaatctaag acaccaggcc tacaggttac ttgtaactgt aagctggagg 360
ccctagaagg ctaaggctag tggctaggga tggatccaga tttttatttg aatgctattt 420
tttggtcatc 430

<210> 19151

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F3

<400> 19151

ggagaaacga gccgtcggaa acgacgtgca taatctcgac cccagcactg ggatgaagat 60
cacggaagca ctacgcgtgc agctcgacgt gcagaggcgc ctccacgagc agctcgagat 120
ccagaggaac ctccagctga ggatcgaggt gcaggggaag aagctgcaga agatgttcga 180
ggagcagatg aaggcgagca ggaccgtgat ggagccacga caggaggagg aagatgatga 240
cgacgacgcg ttcgacgatg tgcacgtgca gctgctggcg accgcggccc gcagcgacgc 300
cgggttccag ttgaagataa gctagccttt ggccgtcgcg cgcctctagc tggctcgatc 360
ggctttgtaa tcgtaagggt taactacaaa tatcagccta gtgacccatg gatagggatg 420
actacaatgt t 431

<210> 19152

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-D9

<400> 19152

ctcaacttcg cgtcgagcct gtactacctg ccgccgttca tcgcgacgat gcagaacgtg 60
aaggccctgg tgctgatcaa ctacggcagc ggcagcgagg ccctggacaa cctctccgcc 120
ttcaccacgc tgagcgggct gaggagcctg tggctggaga agatcatgct gccgccgctg 180
cccaagacga cgatcccgtg gaggaacctg cacatgatct cgctggtcct ctgcgagctg 240
aacagcagcc tgaggggggtc gacgatggac ctgtcgacga cgttcccgcg cctgtccaac 300
ctgacgatcg accactgcat agacctcaag gagctgccgc cgagcgtctg cgagatcggg 360
tccttggaga ccactctncat ctccaactgc cagcactca ccgagctgcc gtacgagctg 420
gggcgggtgc 430

<210> 19153
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E1

<400> 19153

ctgacaatac cgtcctcagg acaaggcacc tcagaagccc ttctcgctcc cgccgcctcc 60
ttgagcccgc tggccggcga gctgctcagc ggggcttttt tttgcatcca caatgccgca 120
gcttggcaca tgttcattgc ctggagctgc aatctatggc acttcaacta ggagatttgg 180
aggtttggag tttcagcaac ataaagttaa tcacatctca tttggtcgga aagcgtctgt 240
taaagcaaca ttgaaaactg tgagatgcaa tgccactcaa acacaaagcg tccaaaagaa 300
atcttcaagt gcaactattc agcgtgataa gaaaggaaat gtacaagggc caaaactgga 360
tgacggaagc ggtgggttcc ctccattccg ctttggcaaa agtgggggtg gtggtggagg 420
ccgngaagt ggcagcaact actttggcgg atttcttctc 460

<210> 19154
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-E11

<400> 19154

atggcggtcca ccttcatcgg caactccacc tccatccagg agatgttccg gcgcgtgagc 60
 gagcagttca cgcgatgtt ccgcaggaag gccttcttgc actggtacac gggggagggc 120
 atggacgaga tggagttcac cgaggccgag agcaacatga acgacctcgt gtccgagtac 180
 cagcagtacc aggacgccac cgccgacgag gagggcgagt acgaggacga ggaggaggga 240
 gatctccagg actagaatag gctgcttcac attcagtcac cgtcagtcac gaaaaactaa 300
 tcatttgctg cttttcgtcg tcgtagtagt agtaggtcgg taatcatctg tcgtgggttt 360
 gtttcgtttc tatcattaat cagcattagt agtagcagct gctgctgcgg gggcacaaca 420
 cnaggngggg ataggaac 438

<210> 19155
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-E12

<400> 19155

cggacgcgtg ggcggacgcg tggggcctcg gcgtccccgc tcccggcctc caccgcgagg 60
 tcctcgccca ggtccagctc gctgagcctg ggccggggga ccgccgggaa cggcccgcgc 120
 cgtcttgccg cagcagcgcc cccacgggag ttcttctcat cgtcccccta ccagccgccc 180
 caaccggagg ggttctcgcc acaccgggag tacggcctgg tccccatggt gatcgaaacc 240
 acctcccgcg gggagcgcg ctagcacatc ttctcgcgcc tgetgaagga gcgcatcgtc 300
 tgcacaaacg ggcccatcgc cgacgacacg gcctcgcttg tcgtcgacac gctgctcttc 360
 ctcgagtccg agaaccact caagcccgtc cactctata tcaactcccc cggnggtgtc 420
 gtcaccgcgg ggc 433

<210> 19156
 <211> 376
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E4

<400> 19156

ataaaactgcg gattcttttct ttctcttcca ttcttacggt tccatattaa agtgtagttt 60
ttttacgtaa atttaataat attaatctaa tatgcccatt ggtgttccaa aagtacctta 120
ccggattccc ggagatgaag aagcgacttg ggttgactta tacaatgtta tgtatcgaga 180
aaggacactt ttttttaggt caagagattc gttgcgagat cacaaatcat attacaggtc 240
tgatgggtata tctcagtata gaagatggaa atagcgatat ttttttgttt ataaactccc 300
ctggcggggtg gctaattctca ggaatggcga tttttgatac gatgcanacg gtgacacctg 360
atatatatac aatatg 376

<210> 19157
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-E5

<400> 19157

cccacgcgtc cgattcggct tattgatctg cgacagtcag cactgtgtga caaccatgct 60
gaactatttg aggagcatga agcacccgga tcaagatcct tttttacaga gataatagca 120
tcagtttcag atataaaatt tgcaagggat ggaagacaca ttcttagtcg tgattatatg 180
aactcaagt tgtgggatct aaacatggat tcaggcccag ttgcaacttt tcaggttcat 240
gaatacttac gtcctaagct ttgtgattta tacgagaacg attcaatttt tgacaaattt 300
gaatgctgtc tcagcgggtga tggactccat gttgcaactg gttcttatag taatttgttt 360
cgtgtttttg gttgttctcc tgaaagcgtg gaggcacaa cgttggaagc cagcagaaat 420
cccatgaggc gacaggttgt tgatccagca aggctgcac gg 462

<210> 19158
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-013-Q1-K1-E6

<400> 19158

cgggcgccctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg 60

cgaggctcctc gagtccaaga tcattcctcga tggggagacg cagagggtccc gcggcttcgg 120

cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 180

ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 240

cgggcgccggc ggccgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg 300

ccgtgatggc ggccggcggt acggcggtgg cggcggtac ggtggtggcg gcggcggtta 360

cggtggtggt ggccggcggt acggcggtgg caaccgtggc ggccggtacg gcaactncga 420

cgggaaactgg aggaactgag cggtgggg 448

<210> 19159

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-E8

<400> 19159

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gcacgcactc gtgggcctcg tcaccttcgg cagcgaggtg cacctgcacg agctcggatt 120

ctccgatctc agcaagatct acgtcttccg ggggaccaag gagatctcta aggaccagat 180

tttgatcag cttggcctgg cgggtgctgg gcggccgggc ttccccaaga tgccacagca 240

accggggcgcc ccacaggtga atgggatgca tccgccgtcc acggccgggg tcaacaggtt 300

cctgctcccg gtgtcagatt gtgagattgc tctcagcacg ttgctggacg agttgcagcc 360

tgaccaatgg ccagtcgagg ctgggaaccg tgcgatccgt tgcactggtg ttgcgctcag 420

tgtagctgct gggttacttg gtgcttgcat gcctggaa 458

<210> 19160

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-E9

<400> 19160

agaccactgg cccgaacatg gttgtagata tgtgcaaggg agtgcagtat ctcaatggga 60
 tcaaggattc tgttgtggct ggtttccagt gggcatcaaa ggaggggtgca ctggctgagg 120
 agaacatgcg tggaatttgc tttgaggtct gtgatgtcgt tcttcatgct gatgctatcc 180
 acaggggtgg tggtcaggtc attcccactg ccaggagggg catctatgcc tctcagctca 240
 cggccaagcc aaggctgctg gagccagtct acctggtgga gatccaggcc ccagaaaatg 300
 cacttgggtg tatctacggg gttctgaacc agaagagagg tcatgtcttt gaggagatgc 360
 agaggccggg taccgcgtc tacaacatca aagctttcct ccctgtcatc gagtcccttg 420
 gtttc 425

<210> 19161

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F11

<400> 19161

ggttttggag tttccttttt cttgctatgt ggggtatatg cagctagctt ttatgctggt 60
 gctcggcttg ttgaggacag gaagacaacc tttcccaaag ttttcagggt tttcctagct 120
 cttgcaatgg cggcaattgg agtgctgcaa tcaagtaccc ttacatcaga ttcttccaaa 180
 gcaaaatcag ctgcatcttc tatatttgca attgtagatc gaaaatcaag gatagaccca 240
 agtgaggatg caggggtaac tgttgaggca ctacaaggaa acatcgtatt ccagcatggt 300
 agcttcaagt atcctaccag gccagatggt cagatattcc gggacctttg cttgacaatt 360
 catgctggaa agactgttgc actcgttggg gagagtggta gtggcaaata aacggc 416

<210> 19162

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F12

<400> 19162

aactccacca actttaacca caccttcata tatcttctcc tccacatcta ccacatcttc 60
 aactccaaca cactctacat atattactac ccaaccaaac caccacata caataccata 120

aacatcatct cctccaaata caatatatac cctattaact catcctatctt ctcctcatca 180
 tcacaaccct aatcaaacat actctatcct gattaacgaa cacataacat cataacaaac 240
 tatcttaact tc 252

<210> 19163
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-D6
 <400> 19163

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 ggtgcaggtc gtgcgcggca cctacaaggg ccgtgagggg aaggtgggtgc aggtgtaccg 120
 ccgccgctgg gtcattccacg tcgagcggat caccgcgag aaggtgaacg gctccaccgt 180
 gaacgtgggc atccaccct ccaaggtgat cgtcaccaag ctgaagctcg acaaggaccg 240
 taaggcgctc ctgcaccgca agggccgggg ccgcgccgcc gacaaggcta agggcaagtt 300
 tactgccgat gacgtcgctg ccgccgcgc tggtggcgcc gncaccggcg cctctctcca 360
 ggagatcgac tagactcttc acggtcatct gatgggtgtc gtaccgnctt ttcctcatct 420
 ctttagtttt tgctacaaa ttgtatgtga tagaggctctt a 461

<210> 19164
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-C12
 <400> 19164

gggatattatt tatgaacatt gatatcgctt ttatgcttac tcacatggga tctgatcggt 60
 taactcaaga tatttgtctt ttggtaatat gatcgcttaa cttaaatttg cattcaattt 120
 agactttagg ttatgttagt cataacaagc ttgaaaagac atattaacaa agaaagatca 180
 tattagcagt tcatgttacg ttgacagata tggacctcgg ttggtttctc tacattagaa 240
 aagctggaag agccttttga actcagtttt ttgctacca gtggtgttat ggtgaaacag 300
 agttttgtgt gtatgtacca acaactaaaa tgtaaacacg acattatcat agttgagtag 360

ataaataatt atctcttata tcttattgt

389

<210> 19165

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C2

<400> 19165

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gcgccgacgc cgaaccgcag cagacacgcg cgcgacagc gtacgaggga gggagctgcc 120
tgaggtagag gaggaggaga acatgcaggg cgccggcgcc gtggaccagc cgccgatgca 180
gatggtgctg cggttgaggc acccgctctc gctggggcgcc agcggggagg acgaggacga 240
cgccgagggg tcctctaggt cgccgctctc ggtgttcaag gcccaaggagg agcagatcga 300
gcggcgcaag atggaggtcc gggagaaggt gtccgccac ctcggacgcg tcgaggagga 360
gtccaagcga ctgccttca tcaggcagga gcttgaagg atggccgacc ctacaaggaa 420
ggaggtggag tcgataagga agcgatcga cccggtgaac cgtcagctca ag 472

<210> 19166

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-013-Q1-K1-C3

<400> 19166

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tccgcaggaa tgggcagcag cgggcgctgt cgtcgctgtt ctctctctcc tcctcttctt 120
ccttctctgt cggcaagacg ctgctgaggc aggcgcaggc agcccgcccg tcgttcgccc 180
tgccgcgcgc ggcggattcc gacaggccga tctggttccc cgccagcacc cctccgccc 240
ggctcgacgg cagccttccc ggcgacttcg gctttgatcc ctgnggcctc ggatctgacc 300
cggagagcct gcggtggaac gtgcaggcgg agctggtgca ctgccggtgg gcgatgctcg 360
gcgcggcgcc tatcttcatc cccgagttcc tgaccaagat cgccgctctc aacacgccct 420

tctggtacac cgcc

434

<210> 19167

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C4

<400> 19167

acccttctct ttattaacat caccaacgac tacccttaca taaggagttt taccttctat 60

gtattgccat caccaaaagt ctcatatact gttgtgtaac cttacaatgc tacactttct 120

gttcaccaac tcgttcataa cgcttatcaa tgtattgtgc ttgacaacta atctctttat 180

gacatatgct ttctcactct aaagctcgcc accctacct ttggctacct gaaccatctc 240

atctctgcc aatgagttg ctttacatgc taccttatgt tccctgttca tctcaactct 300

taccttctca agcttgccat aaacctgac cttttccctc tcttccactt cttcat 356

<210> 19168

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-013-Q1-K1-C5

<400> 19168

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cctcgtcccg ggcccggacg gcgacggccg cctcgacgtc gtcgtggcca tggagcccaa 180

gagcctggcc agattcaagg agctgttgta cgagctcaaa ggtgcaggtg ttccgtgcac 240

ggcagactga gctgctgcat tccgtgcagg ttccttggtt ggctaccggc tggcaaaacg 300

aanacctgtt tgccggattg ttccttgcat tgcgtatcta cttcgacctt tactgcagta 360

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atntacatgg ctatctatat tattcggagc t 451

<210> 19169

<211> 460

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-C6

 <400> 19169

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 aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
 gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240
 aagcacaagc agcacctcgg cgaggccggc gccatcgccg ccggcgcctt cgcactctac 300
 gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360
 gtcgctgccg cggcgccgt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
 aagaaggacc acaaggacgc cgaggaggcc agcggcgaga 460

<210> 19170
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-C7

 <400> 19170

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 gctatccttt caagaatgga cccagcaagt gcaagagatg ctgaacacaa agaagtttgg 180
 tgacattgca tttagagaca aggattttta gactgcaatt gactactact ccaagctagt 240
 tgcgatgatg tcgacgcctt cagctacggg ttttgtcagg cgcagttttt cctacatgat 300
 gaatgggcaa gcagagctcg ctctacggga cgccatgcaa gccaggtct gcatgcccga 360
 gtggcctacg gccttctacc tccaggccct ggctctttca aagctcggca tggaaaccga 420
 tgcccaggac atgtcaacg atggcgccac gtttg 455

<210> 19171
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C8

<400> 19171

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tgatgttgac cttctctgta ttcccatcac caaaggcttc agacactgtt gtggagcctt 120
acaatgctac actttctgtt caccaactcg ttgagaacgc tgatcaatgt atgggtgcttg 180
acaacgaagc tctgtatgac atatgctttc gcacgctaaa gctcgccacc cctacctttg 240
gcgacctgaa ccatctcatc tctgccacca tgagtggcgt gacatgctgc ctgaggttcc 300
ctggtcagct caactctgac ctgcgcaagc ttgccgtgaa cctgatcccg ttcctctgcc 360
tccacttctt catggtcggg ttgccccgc tgacctccg cgggtcgcag cagtaccgcg 420
tcctcacggt ccccgagctg acccagcaga tgtgggacc 459

<210> 19172

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C9

<400> 19172

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tgagcttggt ttcttttggt tttgattagt agctgtggaa ccttaacttg gctatagctg 120
aattttcttg taagtccttg tagtgcttag ccagttgtaa cttaaagagt tctgtttagg 180
ttgccttctt ggggccacaa tcatgtagca gaatgtgctg gtgtttcagg ttagcgtggg 240
ggtatgtgca tctgtccaaa gagagtctgc aatttggcaa ccggatattt tgttatcaat 300
ttcagttact tcgaactgaa catgttctca ttcttacttc ctgttt 346

<210> 19173

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-013-Q1-K1-D10

<400> 19173

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 gggatgatgt ggatgcaata ggcacccctc cttctccaag gtcagaccat gctgctgctt 120
 gccatgctga ccgctatctt ttaatttttg gtgggggggc tcatgcaaca tgtttcaatg 180
 acctacatgt ccttgatttg cagacgatgg aatgggtcaag acccaaaca caaggcccga 240
 ctccaagtcc aagagctggc catgcaggtg gaactgtcgg cgagaactgg tacatagtgtg 300
 ggggtggcaa taataaaagt ggtgtttctg aaacacttgt gcttaacatg tcaactctga 360
 cgtgggtcggg tgtttagcact gtggaaggac gagtccccct tgctagttag ggcatgactn 420
 tagtgcatag 430

<210> 19174
 <211> 56
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-D11
 <400> 19174

caaggttgct gtcactgaag ttcttggtgg tgggaagttt tatgttcaga cagtgg 56

<210> 19175
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-D12
 <400> 19175

actagttcta gatcgcgagc ggccgccaga ccattcgctt ctcgcgagcc atcgcttggg 60
 catccggaag aaatggccaa gtcgaagaac cacacggcgc acaaccagtc gttcaaggcg 120
 cacaagaacg gcattaagaa acccaagcgc caccgccaga cctccaccaa ggggatggac 180
 cccaagttcc tgaggaacct gaggtattct aggaagggca acaaaaagag tggtagaggct 240
 gaagctgagg agtaggaagg aaagcatggc tttgtttcct ctgttttttag ctgagttcca 300
 cctttaggac ctgggggttt gctaaagatg gaacttaagt ggtgttactg tatgatggca 360
 aggacctttt gctgccgaag gttatgtttt gaagtccatg ctacctttta aagtacggat 420
 taccttgtgc ctatgttcaa aaa 443

<210> 19176
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-D2

<400> 19176

ccgagcttca aggccacatc ggacttcgtc agataccggc atatcctgtc tgaaatgggt 60
tgagcagctt tccgttgtgc aaacttggtg tcccgaatg acttggcacg tcctctgtaa 120
caagcaacgt cacctcggag ggtactttta ttttaattctt ttggtccttc ttgcagaaaa 180
taatatattta ttgttgtgaa taaaaaacg ttgcaattac cgatg 225

<210> 19177
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-D3

<400> 19177

ggacaagaaa aagaagaagg agaagaagaa gcacggcgag ggccacgacc acgaccacga 60
cggcggccac agtagcagca gcagcgacag cgactgagat ctggtgtcgc agcacagggtg 120
caacacaagt atgcttgctg gatggaggat tcataaccagc tgatgctgat gtagtgtttc 180
actggtgtca tgcattgatg tatcgtgcta ttataatcaa aaagaaaaaa gaaataacag 240
tcagggatgg tttgtttgcc atgtgatctt gtacactcct acttaaatta tggctgctgc 300
acggtgctgc tagcttgtag taataaagtg ttgatctgc 339

<210> 19178
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-D4

<400> 19178

cccacgcgtc cgcattctcg cctctcgcga ggccaccggc gcgaatgtga ctgaggtggc 60
ttacgccgtg ggcaaggaca cgaggattgg cccaagttc ctgaacgcca gtgttgggtt 120

cgggtgggtct tgcttccaga aggacatcct gaacctggtg tacatctgcg agtgcaatgg 180
 cctgcccagag gtggccaact actggaagca ggtgatcaag atcaacgact accagaagag 240
 ccggttcgtg aaccgcgtcg tgtcgtccat gttcaacacc gttgccggca agaagatcgc 300
 cgtcctcggc ttcgccttca agaaggacac cggcgacacc agggagaccc cggccatcga 360
 tgtctgcaag ggcctgctgg gtgacaaggc ccagatcagc atctacgacc cccaggtga 419

<210> 19179

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-D5

<400> 19179

atttgggcag acattagttg agcccaatgt gatagtaata aatgtggaaa aatttgcatt 60
 gacgtccttc agaaaataac tggttcagca ttgaggagag acctcctatt gcatatgtga 120
 agcttgagat tctagaagga actgacatga agccatctga tataaatgga ctagcggacc 180
 catatgtgaa aggtcacctt ggtcctttca aattccaaac acagatacag aggaaaacat 240
 tgtcccctaa gtggtttgaa gaatttaaaa taccaatcac atcatgggag gcaacgaatg 300
 aacttgtcat ggaagtctgt gataaggacc ccatgtttga tgactcactt gggcaatgta 360
 ccattagttt acatgatctg agagggtggac aaagacatga caaatggata tcaactgaata 420
 atgtgaagaa aggaaggatt cacttggcag taacaattga 460

<210> 19180

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C11

<400> 19180

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 ttaaactacg gagctggcat tagtgagggtg gaaattgatg tgctgacagg agcaacaaca 120
 attctaagga gtgaccttgt ctacgattgc gggcaaagct tgaaccctgc tgcgacttg 180
 ggccagggtg aaggcgcatt catccaagga gtaggcttct ttacaaacga ggagtacaca 240

acaaactctg aggggttggt catccacgat ggcacatgga cgtacaagat cccacggtc 300
gacaccatcc caaagcagtt gaacgttgag ctgatcaaca gcgcccgtga ccagaagcgt 360
gtcctctctt ccaaagcatc cggcgagcct ccgcttcttc tagctgcctc ggtgcactgc 420
gcaatgaggg aggccatc 438

<210> 19181
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-013-Q1-K1-A7
<400> 19181

ctgaaaaatc gactttgaac cctaattgcta aggaattcaa gctaaatcct aatgccaaaga 60
gttgcaactcc gtcagcatct ctgaggccac cacaccctac atcatctgat gcatcatatt 120
actatcctaa taacatgccg gcggtgccac ttggaccggg ttgacctgtg ggcatggggg 180
tcccaccggc atatggcgcc cagcctgtca tgtacaatac tcaacctgga gcatcaccgc 240
acggttatat gcatcctgct ggtccacagg agatgcaaca atacagagga agaaactttt 300
agatatacca ttctgaactg ctcttagatg gaagtcgctg caatccccac aagtgggatt 360
ttgaccagca aaaaccgcta ttacaatgga aaaaactggg cctgttgtgt tgctcggatt 420
ggttggacaa aaaagcgac cgactttgtg ttgctcgg 458

<210> 19182
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-013-Q1-K1-A9
<400> 19182

acggtccga tcgtgtacgc cctggtcgcg cggggcacgg tgggtgctggc cgagttcgcc 60
ggggtcgcg gcaacgccgg cgccgtggcc cgtcggatcc tcgagaagct gccgcccgc 120
gccgagtcca ggctgtgctt cgcgcaggac cggtagatct tccacgtcct ccgatccgc 180
gccgcccga tcacctcct ctgtatggcc aacgacacct tcggaagaag gatccccctt 240
ctctacctgg aggacatcca aatgaggttc atgaaaaact acggcagagt cgccccactc 300

gcgctggctt acgcatgaa cgatgagttc tccagagtgc tccatcagca aatggagttc 360
 ttctccagca acccaagcgc cgacacactc aaccgtctcc gtggagaagt cagcgagata 420
 cacaccgtca tggtcgacaa 440

<210> 19183
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-B10
 <400> 19183

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 gtcctcgcg gatcgatacg atggccgtct tctccgacct ccacaccgcc gacggcctca 120
 agtccctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180
 atgacattaa ggtcttcgcc gcggtgccgt caaagcctgg cgctgagttt cctaatagcc 240
 cccgctggta caagaccgtc tctgcggctg tagcctcaaa attccttggt aaggctgtgg 300
 tggtaaacct gcctgcggaa ccacttcttc cggaacttgt tctgccgatt aagcctaaga 360
 tta 363

<210> 19184
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-013-Q1-K1-B12
 <400> 19184

cctctacctt ttttctctct ctttctcttc acctccctct catccatccg gcacctttat 60
 tttaaaattc cgctcggcct accaccactt ctactctcac accttctctt ttccatccac 120
 tacctacct catcattctc acaccatcca tataatcttt ttcattctta ctaacaaccc 180
 cacctcccaa cttccctact ttccttcctt cataactaat caacatttac tctccttacc 240
 ctactctcta ccataactca taatcaatct cccacttctt tcccatctct tctctttat 300
 tacacatctc cctccttctt cattttatcc ttctttatcc tctcccttta cctcttctt 360
 actat 365

<210> 19185
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B2

<400> 19185

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atctcgccga cagggccggc gggaacactg atgagctcaa catggatgtc ttctgccggc 60
cgtggggctc acagtcacag ctgcaagata aggtgcaggg gcaggggcag ggctctagcg 120
tcaccaagat tggactatgg ggtggaccgg gagggctggc acaggacatc acggcagagc 180
ggccaccgca gcgtcttcac agcgtcaccg ttcgtgctgg cgttgccgtc gactccatcg 240
agttcaccta tactgacagc gctgggcaga ggcgcgccgc tgggcggttg ggtggacttg 300
gcggcaatgt tcgaacgata gaccttggca acgccgagga tgtcagggaa gtctcgggaa 360
catacggcgc atttgaaggt gccactacgc tgacctcgct caggctcgtc accagcagca 420
gaacctgggg cccctggggg gtcgagaacg ggacgcgttt c 461
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<210> 19186
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B3

<400> 19186

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cccggctgac cttccacaca cgcgcgcaca cacacatggc gtgcgagcag aggcaacagc 120
aggcgggagc ggccggcgcg gcgtcctccg ccgtgggctt cgaggactac ctgccggtga 180
tggcgggagc gctgggcgag gacgggctga tgcgggagct ggcgagcggg ttccggctgc 240
tgatggaccc ggcgcgcggg ctcatcacct tcgacagcct ccgccgcaac gcgccgctgc 300
tgggcctgng cggcatgtcg gacgccgacc tncgcgggat gctcgccgag ggcgacttcg 360
acggcgacgg cgcgctcagc gagacggagt tctgcgtcct catggtgcgc ctcagnncgc 420
agctcatgga 430
```

<210> 19187
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B4

<400> 19187

```

attttatcct ctgttggttc aattaaaaat tcttttggtta tttcaatgag tgttgagtcc   60
gaggaaaaat tatcggtgtt gttatatacc ccatttccaa tggcaaggat ccaattattg  120
aatgataaca agtcttcata ctcttcattt gatatattac tttgtcgtag tcgcatgttt  180
tcagaaagga atataatggt gacatgggtc caaaggatg aagcaatgat acaagcattt  240
attatttggt cttttgttcc attttctata acaggtaata tttgttttgg atcgccacct  300
agcacaacca ctttaccacc aaaaggaatg tcaagagctt tttcatatgt ttctcctact  360
atatctctaa gggatctatc aaatgcttca aagcattngt tatttgtcat tagagcttca  420
tcccatataa taagatctgt gtcaataaga agttttgcaa                               460
  
```

<210> 19188
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B5

<400> 19188

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cccacgcgtc cgattcatgt cagcattacc aatttagcat gttttctctg tttcctgtgg   60
tgagacattc tctaattgta cacagaaatt acggctgagg atagaggatc ctctcggag  120
aaagcacatg gtgtatctgg gaggtgcagt gcttgctggg atcatgaagg taattcttgt  180
atatgcgaat ggcgtttaca ctgtgatgga ttgatagcaa tatacttccc cgcgtattgt  240
ttggaacgtg caggatgcac cggagtctctg gataaccagg caggagtacc aggaagaagg  300
tgtagcgtgc ctaaggaagt gcgggcagtc ataagtcttg ccacatatca tccacagaag  360
aaatggaggt tgcattgtga aagaagagct ctgntgttgg tgttgtgtat tgtagtgagc  420
tatagctgtc ctgaacatgc ttggggataa accatgtt                               458
  
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<210> 19189
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-B6

 <400> 19189

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aggacaaaac agtcacctta tatggcatat atattatctc acaaactgta agcgacaaaac   60
agtcctctcc agcaacatat gcatcacatg caacgagaac ggtatggaac tgagtttctg  120
gacaagtcta tatggattca gcacctatct cgaatattca cttttcttta taccaaaagc  180
agacgatacg caaaaaacga gcatacttga cagtaacatg caacgggtag cgctacaaca  240
tagatctagc ataaccctgg cagtttagta acttggaccc atgctacaag aacgggacag  300
tcgcttttcc atctctcgtc cagtcccaac tgttgctctt gagccacctn caccgccgcc  360
ttctgctgca gaaactgtgt tgtattgctt cctgcaacct gngcagcgcc catcttccac  420
caagatcctg ttgtggcaga agaggcacat                                     450
  
```

<210> 19190
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-B7

 <400> 19190

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cagacacatc ccggtgatcg acggcacggg gatgctgggg atggtctcca tcggcgacgt   60
cgtgcgcgcg gtggtggccg agcacaggga ggagctgaac cggctcaatg actacatcca  120
gggaggctac taggacggcg tgtgcagcga cgacgacccc tccgatcccg ccagtcagtg  180
aagtccgcct ttgaaatcca ataactcgga acgatgatga tgacgaaata ggccgtgttt  240
tcttggacaa tgatgttaag ttccggcaagg tttgcctttc tctttttttt tttctactgc  300
gtggtctatg tgtatattgc caaaggcatg cgtgagccat gcgcccgggtg ctgtgctggg  360
gcgcagatac catctgatgg tggaaacacc ggaaataaga gcgtgccgct gtgtgtttcc  420
tttgaaggaa tg                                                         432
  
```

<210> 19191
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B8

<400> 19191

ccttgatgaa ccaaagtcag ttttttatga tacacgtgcc gataatgatg gtgaaccgtt 60
 ggagttctgt tctggagaag gcttggtagc agaggggtttt gaaatgtgtg ttcggctaata 120
 gcttccccgtt gaaaaatcta ttgtcacgtg cccaccggat tttgcatatg ataagttccc 180
 aaggccagca aatgttcctg aaggagctca tgttcagtgg gaaattgaac tacttggatt 240
 cgaaatgccc aaggattgga ctggcttaac ttttgaagag atcatggatg aggcggacaa 300
 aataaagaac acgggtaaca gactgtttta agaaggaaaa ttcgaacttg caaaggcgaa 360
 atatgataag gtgcttaggg aatataacca cgtgcattct catgatgatg aagagggaaa 420
 aatcttttgc aattcaagaa gttccctaca tctaaatgt 459

<210> 19192
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B9

<400> 19192

gaatctcata aggaagatgc tctgcccttg tccttcagag cgtctgaaag cccatgaggt 60
 actacgccat ccttggatct gtgaaaatgg agtggctact gatcaggctc ttgatccccg 120
 tgttctctct cgtctcaaac aattctccgc aatgaacaaa ttaaagaagt tggctctgag 180
 agtgatagct gaacgacttt ctgaggagga gattgctggg ttaagacaaa tgttcaaggc 240
 agttgacgtt caaaatagag gcgtaattac ttttggtgaa cttagacaag gtttaaaaag 300
 atatggtagc gaattggaga atagagaaat tagtgatata atggaagtgg ctgataatga 360
 caataatgtg accatcaatt atgaagaatt tatcgtgca actgtgcctc ttaacaaaat 420
 agaacgtgag gagcacctg 439

<210> 19193
 <211> 456

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-C10

<400> 19193

cgagagagggc aggcggcggtt cgagggagaa acgtcactac agttattcac caagttcttc 60
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 tgatcggagc catcgacact cgagaagatc gagggagaag agacatgata gagactcaag 180
 ttctcctgat gccatcaggc gctcaagtag atcgacggag aaacagcgcc gtcctgatac 240
 aagcccacgt catgccaacg ggcatcaciaa gaaatcaagt ggcaagcaag actatactga 300
 gcgtagccgt tacgaaacca gtagacattc aaggagatct caggagaaac ggcactaccc 360
 tgattctagc gcctctgatt actcggactc tgatcagcac aaaaaacatc gccaccatca 420
 taggagaaaa tgaactggca gtgtataagg taaaat 456

<210> 19194
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A6

<400> 19194

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 cagcgccgcc gccccggctc ccgccgacgg gggcgacgac ctcgaccagc tcctcgacag 120
 cgcgctcgac gacttcacca acctcgatct ctctgcctct gccgccccca aaagctccgg 180
 cgaggcatcg gggtcaggat cgggaggcaa ggggccagtg aaggggctgg ggctggggct 240
 tccggacccc aaggcgccga agcggcgcg cgggaagcag ccgccgccga ggggcgctg 300
 cgccaaagag gcgctcgagg agctgacgcy cgagacgcyg gaggtctgtc gcggtctcga 360
 gacggccact gggagtgtcc cgtcactgga cgatgacgcc atgatggagg agtttgtcaa 420
 gcagttccag gagttcgag gggcacagga tatggactcc 460

<210> 19195
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-H2

<400> 19195

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aggatgaccc agattatggt cgagactttc aatgttcttg ccatgtacgt tgcaattcaa 120
gcagtgctgt cactctatgc cagtggacgt actactggta ttgntctcga ctctgggtgat 180
ggtgtgagtc aactgtgcc catttatgaa ggatatgcc ttcccatgc cattcttcgt 240
ctggatcttg ctggtcggga cctcacagac tccctcatga aaattctcac tgagaggggt 300
tattccttca caacctctgc cgagcgagaa attgtgaggg acatcaagga gaagcttgca 360
tatatagctc ttgactatga gcaagagttg gagactgcca agaacagctc ctgagttgaa 420
aagagctatg a 431

<210> 19196
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H3

<400> 19196

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ccctcaatc aatcgagccg tgggtgttgt tgtctctctc tctctttaag atggttgca 120
ggaggaatcc atccattatt gaagaaggta gtagatctga agaaatccag gtggagctgg 180
agcgtcctcg ccgtcccg accggtcatg gtagaggcca agctcgggga gatgttggtg 240
ggagtagttc tcaacaacct gaaatcgctc atgccgctcg agaagaacct gtccctcagc 300
cacctctcca tccatcttca tcacgggctg ctgcagctgc cgctctctgc cccatgagcc 360
gtggtgaagag aagcaagaag agaggtgttc gtgcgctcat caggggttta aatggaatct 420
atgctatct 429

<210> 19197
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H4

<400> 19197

aatccctcat agatttgatt ctcttgatac ctcttgccaa ccaacggcgg ctttttaaaaa 60
ggtcgggccga ccaatcaact tctctctttt cccttaccce ttttcatgcc tttttcatcc 120
aatctctaata taaagtcctc aaccttcctt tccccaaat tttcatttac ttcattgtct 180
ttaccatact ttcctactac ttctctgcca tcaccatcaa tattgttata atccccctcc 240
tcaatatatt atatcacatc ctcatcact tcaacacatc tcctttcttc atttacataa 300
catccaatcc ctactactca acctttatta atatctccac ttattctttc a 351

<210> 19198

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-H5

<400> 19198

caagagattg ctaaaaagga ttttgagaat cttaggcaag atagtgatgc cagtggggcga 60
gaaccggaac cagaacgaga acccaagccg gagcccgaac cagaagaacc aaagccacag 120
cctcgccggg gcaggcctcc aaacaagaat aatgccaaac agaaagttgg gaagccacca 180
gcagaacgtg ccactgcaga cttttctggt gcaacacttg ctactgcggc aaatattgga 240
cgacatgcac aggcagatgt tgatctgtca cgaagagtaa tggataaagc gatgattgag 300
gatgtgttga gagcttcttt tgccaacctt aggaatgagc acaactggtc tgggtgagcgg 360
aagtttgaaa gacttgaagc ttactcaggt tatgggggta catggtctgc 410

<210> 19199

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-H6

<400> 19199

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gcaacacaac tgctgctatt ggaaaggggt ttgccattgg ttcagctgct cttgtgtccc 120

tggcgctttt tgggtgccttt gtcagcagag ctggagtgaa ggtcgtcgac gtcctctccc 180
 ccaaggtttt cattggtttg attggtggag ccatgcttcc ctactggttc tctgccatga 240
 ccatgaagag tgttggaagc gccgccctga agatgggtgga ggaggtccgc aggcagttca 300
 acaccattcc tgggttgatg gagggaaacag ccaagcccga ctacgcaacc tgtgtgaaga 360
 tctccactga tgcttccatc aaggagatga ttcctcccgg cgctctggtc atgctgactn 420
 ccct 424

<210> 19200
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H7
 <400> 19200

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 gagccacagc ttcactgtgt tcgcgaaaga tatggttgag gcgatatcat tctcaaatct 120
 gtatgcccct gagcatttga tcatcaacgt aaaggatgct gagcagtggg aggagtcat 180
 cgaaaacgca gggtcagttt tcttgggcca atggaccca gagagcgtgg gcgattatgc 240
 gagcgggacg aaccatgtcc ttccgaccta tggttacgca aggatgtaca gcggtgtatc 300
 gctgaactct ttcctcaaat acatcactgt ccaatcccta acagaggaag ggctgagaaa 360
 gctggggccg tacgtcgcga agatggccga agtggagggg ctagaggcgc acaagagag 419

<210> 19201
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-H8
 <400> 19201

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 gaagtgtctg atttctcctt aggaaagata tttcagatgt atctaacaaa aagagtgaca 120
 agcaagagtt aaagcccac cttgttaaag tgcaaacagg aaagaggaag agaggaacag 180

aaaggaggtt gttatcgaag aagcaaagtt gccaggaccc tggaccattg cctgcgtatc 240
 gccaaagaaat tgcattcttc aatgaatcca gaaaatccac ccacagaagg attgaaaatg 300
 acccttctac cgagggtgaag cttaaagttg gtgatgtgag attggcaaac attgatgaaa 360
 acatcaacaa gccagtgagg actcagagag aaggaataga aattntttgt ggtcctgatg 420
 attggacaaa 430

<210> 19202
 <211> 61
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H9
 <400> 19202

aaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaagga caaacaaatg 60
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<210> 19203
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-A1
 <400> 19203

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 tctgtggggg tcaactagcc aggacaaatg cttatggact gcaaagcttt ttctgtcat 120
 gtctctccca gaaatgctta atgtgggcat gtggcttatg ggatcagaat gcgaccaga 180
 tgggagaata gcttccttgt ggcaaaaatc acagaggatc agcctggaag agctgcatcg 240
 tgctattgat tacagacaac tttgcaccga ttcgagcaag catcaggcaa atcttgcagc 300
 tgacatagcc aaggcttgca tgaactatgg cttactcggg cgtaatctgt ttcaactttg 360
 tgaggaaatg ttacaaaaag atacatgttt agcagtctat gaangaatac tttcatTTTT 420
 tccaagtcac agtgaacagt atcctggggg tct 453

<210> 19204
 <211> 382

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-A10

 <400> 19204

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 aacgatgagg ggatgccaat ttaccagagg cctttcatga aggggaagct gtacatccat 120
 ttcacggtgg agttccctga ctgctggca ccagagcagt gcaaagctct cgagacagta 180
 cttccaccaa ggccttcatt caagctgaca gacatggaga tagatgaatg cgaggagacg 240
 actatgcatg atgtgaacaa catcgaggaa gagatgagca ggaagcaagc tcacgctgcc 300
 caggaggcgt acgaggagga cgacgagatg ccgggaggag cccagagagt gcagtgcgcg 360
 caacagtaag cagactatca tc 382

<210> 19205
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-A11

 <400> 19205

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 ggggtgcgcg accccacacc ggctagctac gacaacatgc tgacgccag atcgacgccg 120
 tgtacgccgn catgaaggcc atggggcaca cggacgtggg cgtccggatc tcggagaccg 180
 gngtggcgtc caggggagac gaggacgaga ccggggccac ggtgcagaac gccgccgct 240
 acaacggcaa cctcatgcac agggctcgcca tgagccacgg gacaccgctc aagcccaaag 300
 tgcgcgtgta catgtacacg tgctcgtctt ttaaagcgag cacgtgaacc cagcgcacac 360
 gtgagagcgc atctacggtc tgctctacca caacggctcg ccggtgtacg etc 413

<210> 19206
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-A12

<400> 19206

tggcatcacc aagcatcaga atttcttcca aagatgaatg ctggtttgat ctttgggtcca 60

ccagcactcg atgggtcatgt cttgcgcgca ttaattctgc gataacagga ccgatgggtg 120

cttggattat ttcagattat ggaccatttg cagtatgatt gctcgagaga aatctggagc 180

tcctgttcag atccactttg tgacagcaag gcatgcttca gcatgaagat ccatgtatga 240

tacctctgaa aggtttactt aggcctagac tcagtttgtc tctgattctg tacattcttg 300

atagattata tatttgctca agaatgttgt tcagtgcagc attcaactgc aaattttatt 360

gctggatgaa tcgctatcca ctagtacata ccgatttcca ggc 403

<210> 19207

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A2

<400> 19207

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acagaggaca tgggtgatcca aggtgaacct ggagttgtca tccgaggaaa gaagggcact 120

gggggcatta ctatcaagaa aaccggcatg tccttgatta ttggtgtcta cgacgagcca 180

atgactccag ggcaatgcaa catggtggtg gagaggctcg gcgattacct gatcgagcag 240

ggctttctaaa agttcgtcat gttctgtttt ggtcatttgg gcaccaaagt ttgcgcctca 300

tttggttctg taatccgtga gtcgtgcat gtacttggcg tattgcatgc agtgaataat 360

ttagcttggg tttgtttggt gggggcagtg ttggggacgg atttggattg gggtttatgc 420

ttggcatcgc gtcgtatcga aatcagctg ctgtttcg 458

<210> 19208

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A4

<400> 19208

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accggagggc gccgatggag gtgggcgccg tgcccagatc cgccgcggcc tgccgtgcgg 120
cgcccttgct cccggccgtt cgagccgctg cgtgccacct ggccctgcc cggcgcgcgt 180
tctccgcata cgtcgcggcg gcaccggcgc cgcgcgcct cgccgctcgt cgcgctgcgg 240
atggtgacag cgtggagacg gcgccggagg cggccccat tgagaaaagg ttccctccct 300
tcccagagcgt catggacatc aaccagatcc gcgagatcct cccccacagg ttccattcc 360
ttttggttga tagagtaatt gaatacaagg ctggagaata tgcagtgggg atcaagaatg 420
ttacaataaa tgataatttc ttcccaggac attttcctg 459

<210> 19209

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-A5

<400> 19209

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agcgacacgg agacggagaa gaaggcctcg gtggcgctga tgtccattgc gaaaccctc 120
gctggaaaga agctctgcaa gcggaccctc aagctcgtgc gacgagcctc cgaggcgaag 180
tgccctcaagc gcggagtcaa agaggtagtc aagagcattc gccgcgggaa caaaggattg 240
tgtgtgatcg ctggaaacat ttctcctatt gatgtgatta cacatgttcc gatactatgt 300
gaggaagcta atgttcctta cgtatatgtt ccatcaaaag aggatcttgc gaccgcagga 360
accactaaga ggccgacttg ttgcgtcttg gttctgacca aaccaaacia gggg 414

<210> 19210

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-H12

<400> 19210

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agatgatggc gtgcggcggc ggcggggaga agaagcggcg cctgagctcc gagcaggtgc 120
gcgcgctgga gcggagcttc gaggtggaga acaagctgga gccggagcgc aaggcgcggc 180

tggcgcgcga cctcggcctg cagccgcgcc aggtcgccgt ctggttccag aaccgccgcg 240
 cccgctggaa gaccaagcag ctggagcgcg actactccgc gtcccgncag tcctacgacg 300
 cgctgcggca cgaccacgac gcgctgcgcc gcgacaagga cgccctcctc gccgaggtag 360
 ttgtcgacgt tatgccgtta tacaagctgc tggacgagca cgatgacgcg cgcaatggct 420
 gacc 424

<210> 19211
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F8

<400> 19211

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 gcagcagctg gcagcagggg aggccgcggc ggcgcgggtg cggcccgtgg agacgctgct 120
 tcgcgcggca ccgctggggc tctgcgtggc cgccatgacc gtcagtctcc gtaaccagca 180
 gagcaacgag tacggcgccg tcgcctactc cgacctggga ggcttcaagt acctcgtcta 240
 cgccaacggc ctctgcgctg cctactcgct ggtatccgcg ttctacactg ccgtgccgag 300
 gcctgccacc gtgtcgcgct cctggctcgt ctctcctcctc gaccaggtgt tcacgtacct 360
 gatcctggcg gcggggcgag cggcggcgga gctgctgtac ctgcctaca acggtgacaa 420
 gga 423

<210> 19212
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F9

<400> 19212

acccactcat ccgaaggtct ccaaacttct cccccctc tctccaattc ctcttctcct 60
 caacctcact ggtcacttta aacacttgcg acgctccta atcatcaaca ctacctctac 120
 ttctattact tacttccctt caccaccatc aactaatctc tcaacaatgc cttcacctcc 180
 tacatccata tcctctactc caaccacatc acacaccagc acacacatac ctctatccac 240

ttcaactttc atacctacta cttccagaac tacattctca acactatcta gaacactaac 300
ta 302

<210> 19213
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-G1

<400> 19213

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gcttccgcgc cacctggctg ctatggctct acctctcac catgctcgtg ttcacgctcg 120
cgctgctctg cttcacgctc ttgccttcg ccgtcaccaa caggggcgcc gggaagccg 180
tgtcgggggt aggctacagg gagtaccgcc tcggggacta ctccacctgg ctgcggcgcc 240
acgtcgaaaag ccgcaaggac tgggcccgga tccggagctg cctcgccgac gcgcacgtct 300
gcaggcgctt ggaggagagg gagagcaagg acgcgggcggg tctggctcgg ctcggcctgt 360
ccccggtcga gtccgggtgc tgcaagccgn ccacgagctg caacttcacg tacaccg 417

<210> 19214
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G10

<400> 19214

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gatgttctct cttcttttct tttcttcttt tttttgaaag cttccctgta acctgaaatc 120
ggctttactt aaatttcgag ccaacttaat cttcttcttt gccattctt ttttaaagaa 180
gaaagttgag agatgcctgt agtttttttt ttgggtgtgt ttgtgactcc agagtctgaa 240
atcaciaaatc agagctgtat agggagcagg tgatgactga gtgactgaca aacgtgggga 300
agatggagac aaagaaacgc aagcctgtgg tctactaaag acgggggcat cgccatcgag 360
ggcaaacgga ggccacagga ttagcagctt ctccgaactc ccctctcgtg ctgctgcgtc 420

t

421

<210> 19215
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G11

<400> 19215

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaataaa ataaaataaa aaaaaaaaaat taataattat aataaaacaa taataaaaat 180
aaagaaaaaa ataaaacaaa aaactataaa taaaattaaa aaaaaatgtt tgagatatcc 240
atagtctaaa atcacaaatc tagatcatct ataagaaaca agattattga ctgaagtgcac 300
tgacaaacgt tgtggaagat ccaaaactaa aaaactcatg cctgtggaat actaaagact 360
gctgcatcgt tatcgacgtc aaacaaaagt cacatgatt 399

<210> 19216
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G2

<400> 19216

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attggattac aaaaaggaag atagacgggc acttggtata aaatcacgtg aagcaccgcc 120
aaaatttggg tccccagaac gacaaaaact aattgatgag atccatgagc aaatgctcag 180
taaggctcct cctgtcccc aaacgtacc aaatgtgcc aacgaggagt ctaacgaatt 240
accgcacatc gacccttctg gcgagcatgc agacaaggta gatgaaggta attcggttaga 300
ctcctcgatt ggcacatata ggttca 326

<210> 19217
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G4

<400> 19217

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gcgttgccatt ctaccgggga gcagattggt gtgtcctagt ctatgatgtt aattctatga 180
aatcgtttga taatcttcac aactggcggtg aagagtttct aattcaggcg agcccatcag 240
atcctgacaa tttccctttt gttctgttgg gtaacaaagt tgatgtagat ggtgggaaca 300
gccgtgtggt gtcggagaaa aaggcaaagg catgggtgcgc ctctaaaggg aacatcccgt 360
actttgagac gtctgctaaa gatggaacga acgtggaaga tgccttcag tgtattgtaa 420
agaatgctct gaa 433

<210> 19218

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G5

<400> 19218

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ggccgcccac cgacgtgccg ggcgccaccg aggaagaggg gggaggcgcc ggaggagacc 120
tcgagggcgt ccggccgtac ccgaaaaacg gcagcggcag gggccgcccg ccgtggtact 180
acacggcctt ccaccgggc aggcagcagg agcaggagca gcgggacttc gggatgagcg 240
acacgaggct gtaccagaac ggccgtact actacgacgt ggacgccggc aggtacggct 300
acggccgcga gtcgaacccc atgcggacgc gcccgcacga gggagagtgc ggctccgggt 360
acggccgacc ccgcgcccc gccggtggca ggcgcggcag tagctacggc gacgcggcgg 420
gttaccagc 429

<210> 19219

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G6

<400> 19219

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gtgggaggaa caagaagacc aagcgcacag cgccgaagtc cgacgatgtt tatctcaagc 120

tccttggtcaa gctctaccgt ttcttggtca ggaggaccaa gagcaacttc aatgctgtca 180

ttctcaagag gctcttcatg agcaaaacca atcgcccacc aatctccatg cgccgccttg 240

tcaagttcat ggaaggaaag gagaagaaca ttgctgtgat tgttggcaca gtcacagatg 300

acaagaggat ccaagagggt ccagcaatga aggttactgc cctgagggttc accgagacgg 360

caagggccag gattgtcaat gctgggtgggg agtgcctcac atttgaccag cttgctctcc 420

gtgctccac 429

<210> 19220

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G7

<400> 19220

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gctatcagct tgtgatgaag agacttggct tgaggaatat aaccaagatg ataataaggta 120

tagtgctggc aggggtgccc acttgaatct taagcgtgca gagaaggcaa ggataactgt 180

ccaaaagatt ccaactatga ttgacagctt gatagccaaa acttttgcac gggaggatga 240

aagaaatgtg ccatttttat atgatgggat tcgtttgggt gccatttttg aagagcaaaa 300

actcagaagg gcacaaaggg aggaagagaa gagacgcagc cgggatcaga ggaagctgca 360

cagtttattg cttaaggaga aggagttgat tttcgggtcc aaacctagtc ctagaaagac 420

aagcagct 428

<210> 19221

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-G8

<400> 19221

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aaactgacaa cccagagcta gctgttaagc ctgtttatgt caaggacgac ttctttgatt 120
ccctctctag tggaacgttt ggacgtggag ggccaaatgg aaggggaaga ccttctgaac 180
ggcgcagagt agacacagag acgtttggtg aatttccgag gcacaggcag ccctaccgtg 240
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gctatggaaa cacgngagg ggtggccctg ggaattctta tcctcactgg ggcaatggga 360
gagattgatt atagcagcag cagccatact ttgcggtgtt gtagtctttt gccacatgca 420
tgaagcg 427

<210> 19222
<211> 283
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-G9
<400> 19222

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aggaggctac cccaagcatg tagtagcttc cattctgatt ctgggacggt gttgcacgtt 120
acagtgtctt caagctgtct ctgcaaagtg tgtgtttttt tattccattt ccctcctgct 180
cttgttctct ccaactgcgc ttacctgcc cggatttctc taaaaaatgt attaaactat 240
ctgagaaatt catccaactg cgagtaactgt gctgtgcgtg agc 283

<210> 19223
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-H1
<400> 19223

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acaagttacc attgttgctc tcgggtccact gaccaacctt gctctggcag tggagcttga 180
cccttcgttc ccgaagaaga tagggcagat tattattctt ggaggtgcgt attcagttaa 240

tggaaatgtg aaccctgcag ctgaggcaaa tatctttggg gatcctgatg cggcagatat 300
 tgtgttcacc tgcggtgctg atattttggc cgtgggacta aatgtaaccc accaagtagt 360
 tctaaccgat gctgacaggg agaagcttga acagtgtgat agcaaatatg cccgctactt 420
 atgcaagat 429

<210> 19224
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H10
 <400> 19224

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 gttgcaacgc tattggtcac agtaaccaga gtggactcga cagctgggag acggcacaaa 120
 atacaagtac agcaccggtg cgcaggggag acgtattcgt caagaggtta taacttggcg 180
 gatcgattct ttgcttgaac cagagaattc agaagtacta ggccaacgat gttgatgtcc 240
 cagtgtgcat agagatttgc atgttgtaga acaaaaatcc tgtgatgaga gtggcataaa 300
 aacgcggatt tggagagtgc aaatttatta atagtgtcgg 340

<210> 19225
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-H11
 <400> 19225

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 gactaaacag aattggggga gaagttttat gttatatatg gtaatggccc cacctatagt 120
 acccaaattc tatctcgaac ttcctatttt gaaaataaaa atagaaaaat aggagaaaaa 180
 tatatgacag aaaaaaata gtagagaaaa aaaaaacccg agagaagcaa aagtcacttt 240
 cgaaggttta gttacggaag ccctacccaa cggaatgttc cgcgttcgcc tagagaatga 300
 cacgatcatc ctgggctata tttcaggaaa gatccggtct agttctatac gaatactgat 360
 gggggatagg gtcaaaattg aaataagtcg ttatgattcc agcaaaggtc gtataattta 420

tagactt

427

<210> 19226

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F7

<400> 19226

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ctcaaggaga acctcacgcg gtcgaaacag aatgccgctg cctaaatcaa ttgctcctcc 120
tggtctcaatt cccctcccg cctgatcatga cactctattg gcccagaact accaactcct 180
gcctacgttg aagacgccac ctcaatctga ggaaaacgag gcttagaatg aagaatccaa 240
cccaagtatg acaccgaatc cggcaaattc taatcctacc ttctcgtagg atcagcgtag 300
taacgagcaa cagcacactc ctcagcatgg acagaggggt tcatccaac tcaatgcttt 360
ggcagctgct gctgcatagc gacctcggat gaccgtcgac cagctgaaca tctgctaacc 420
atcat 425

<210> 19227

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E2

<400> 19227

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agactcatta tccagccggg ctgccctgat gcttgatgca gaaagagaac cagaaaagac 120
atggagcccc atagttgaaa tacattatgt agggggaact tatagaggta gatgtcaaga 180
aggtgtccct gaaggaaagg gacgtctaac cttcagtgc ggaagctttt atgatggact 240
ctggagggtat ggtaagagat ctggtttggg gactctattt cacagtaacg gtgatgtata 300
ccatggaacg tggagggatg accttattca tggaaagggc tgggtactatt ttcacagcgg 360
tgaccgctgg tttgcaaatt tttggaaggg caaggctaatt ggtgagggta gattttatgc 420
caatgatggg 430

<210> 19228
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-E3

 <400> 19228

gttgattcca gatcatcaaa tgcaattctt tctggaaatg gcttcacaga tcaatttagc 60
 atcattcaag gggtagtggt cgtacctggt tcaggcaaaa taagaaacac cctagataat 120
 ggcttcttag gtgaagttcg aactgggcag ccatctgtgc tcacagctgc tgcgaatgga 180
 gcaagacatg acaaaggtac aaataatgtc atacaggggt atgggtggaaa gcaacaaggg 240
 aggtcaactg ggatggctta cctttccaga agatgaagta gttttcactc gacgcaattg 300
 gttttgaggg tgggtgaagct gttggaaacc atacaagtgg cattgttttg gcctccaaac 360
 ggccgatgct gaagatgacc tgnattaaag ttattctaga tttatttttt ttgttgacc 420
 attgctatt 429

<210> 19229
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-E4

 <400> 19229

tgacattaac acaagctcta gattcccaag ccaaggagtt aaggtgctg accgagtcaa 60
 tcaatcgtac cagggaaccc ataaacatta ccagagacga taggttttct cagcaccgcc 120
 cactggaaga ccatgtccct cctgttacga ggaatggggc aattaacagt tcatggagat 180
 cttctcagca aactaacatg tatggtgtgt cacatggtga ctttggttcc gcaaggctctg 240
 cttcattcgt gccagcacct gctgaacctc cagctggatc attttcaaaa tcttggtgccg 300
 agcagacgtc caccgctgca caacgagcgg ataggtcctc tggcggttaag ccatgggaga 360
 tgcagcagta ttgcagcag aggcctggtt atggatccaa ctncagttg aatgatg 417

<210> 19230
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E5

 <400> 19230

 ggcctctac atttcttctc tctctgctcc tccgcctccg cctgatccat ccaagacagg 60
 gatcgccatg tcggactcgg aggagcacca cttcgaatcg aaggccgacg ctggggcgctc 120
 caagacctac ccgcagcagg ctggcacccgt ccgtaagaac ggcttcatcg tcatcaagaa 180
 ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgcca 240
 atgccacttt gtcgccatag acatattcaa tgggaaaaag cttgaagata ttgttccttc 300
 atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
 tgaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggatg atcttagact 420
 cccaac 426

<210> 19231
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E6

 <400> 19231

 ggccccggta accttactta cagaagggtgt taaagttagt ccagcagttt tgcagtctgc 60
 tggtttgaac ttgaaacaga tatacacaag gtcattgatt gctgcatgct gcttccatgc 120
 ataccaacag gtgtcataca tgatcctcgc cagggtatcc ccagtcacac attcagtggg 180
 caattgcgtc aagcgtgtgg tggtcattgt gacctcggtt ctgttcttca ggacccctgt 240
 ttctcccatc aactcactcg gtaccgggat cgctcttgct ggagttttcc tatactcgca 300
 attgaagagg cttaagccca agcccaaggc tgcttgatca tagaccttg cagggtccatc 360
 caatagaact tttgaagtta tgctatgcc a ttggaatgat tagtgagtgc cgtagttaga 420
 atgatgttt 429

<210> 19232
 <211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E8

 <400> 19232

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 gaggccacct ccaagagtga tacgaggtct acaaaagaga atcctcctag caaagatgaa 120
 gacccccattg ggattgatgc aaagaaggat aaaaggaagg gatctaaaca agaggtaaag 180
 ggcccttgaag agcttgaagt ccagagtgtt tctacaggta tcaccacttc gaaccctgggt 240
 aaacttgaag tgccagacgg taaggaaaag aaaaagggtca aggaagctaa gacgaagaaa 300
 tctgaagagc cgtaccatgc caataacagt agcttaaaga acaaagaagt tcaatctttt 360
 gtctatgata ccagcacgaa ggacaagaag gaagccaaga ggaagaaatt tgttgacgaa 420
 gaagatgtag at 432

<210> 19233
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-E9

 <400> 19233

 ggcgtttctt catgattaaa ctttggaacc ataacatttt agatgcccgcc actatgaaga 60
 catgcaatac agtccttcaa atttttacaag aagaaagcac aggactaaag taattttgat 120
 gcttctgatg aaaattcaag ggaagaagat ttctttacca tttccaagaa gaaagcatag 180
 aattggagta acttttttatt gataatttca ttcatatcta ttgtcaattg tattaatgggt 240
 ttttaaaaga gacaaatcat gtctaactct cacgctgtaa tattctaagt cgtacgtgaa 300
 tttgatgaat attcattggt gttttactta agagttatcg tattgagatc cttaacatat 360
 tattttattt ttc 373

<210> 19234
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-F1

<400> 19234

cgccagcaag aagcgcgagg gtcacagcca ctccaacatg caccggtccc gggcttctag 60
ggggccttaa caaactgggtg agccttacca aaggctgggc cggcccaaag gccgcggggtt 120
accaatggcg ccggaagga accggcggcg gcgccacaa agcccgacca caaccccggc 180
cccaaccga ggcttcgtcc taatgaggct gttcgacgtg gtgtcggcgc tcaagtcggg 240
gtacgtgaag ctgcagcggg cgcacttccc gtacgacccc gacagggtgg cctcggccga 300
cgaggccgtg gcgtcggagc tcgactcggg ggccgcgctg cattgcctgt gcagctcccg 360
ccgcgggata gggccgctgg tagacgaccg gtggtccttg gtgcagcgcc t 411

<210> 19235

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F10

<400> 19235

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cggtttcgtg ggtgagcggg tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccg 345

<210> 19236

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F2

<400> 19236

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tgttggtgaa cacgtcacgc gataccgccg aggcgtggtc agcgtcgcgg agtccccgga 120
gcatcagcac gtgtgcgcag aacccgagcg agagcgcgcc ggtggccgtg caggcgccga 180

gcacgctctg cacggtgtag gcgtcgggcc tgctcgctt gactgcgtcg aggagcacca 240
gcttccggaa ttgctttgtc gttccatct ggaccaccgt gtagaggctc catttccaga 300
gtactgcacg gtcgggctcc gattcggaac cagagtcggt aacggagccg acgcggaaag 360
agtcggtggc ggtgcagtca gacgagagcg cgatgatgcg ctgctgctcg tcgcagggcg 420
aggacgggac g 431

<210> 19237
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-F3

<400> 19237
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gccgtctccg tgaagcccggt ggccatcaag ggtctcgccg gcagctccat ctccggaagg 120
aagctcgccg tcgccaggcc gtcggcccg cccatccgca ggccccgcgc agccgcccgtg 180
gtggccaagt acggcgacaa gagcgtctac tttagacctg acgacatcgg caacaccacc 240
ggacagtggg acctctacgg ctctgacgcg cctcgcctt acaaccgct acagagcaag 300
ttcttcgaga cgttcgggc tccgttcacc aagagaggct tgctgctcaa gttcctgctg 360
ctgggcggcg gctcattct ggctacgctc agcgcgtcgg cgtcacggga cctnctgccg 420
atcaag 426

<210> 19238
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-F4

<400> 19238
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tgaaaaattt agtaaaagga ctgtcaagggt tacaggaagg cataatgatg actgcaagag 120
gctgttaagg ttgatgggtg tcctgtagt tgaggcacca ggtgaggctg aagcacagtg 180

tgcagcactt tgtgaaaatc accaggttta tgctgtagct tcagaggaca tggacacact 240
gacttttggg gcccgagggt ttcttcgtca cttactgac cttggttata agaaatctcc 300
tgtgacagaa tttgatgtgt caaaggtttt ggaagaactt ggactcacga tggatcagtt 360
cattgacttg tgtatcctta gtggatgtga ttactgtgag aatattagag gtatcggagg 420
acaaagagcc tt 432

<210> 19239
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-F5
<400> 19239

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aaatcaaagc aggaccagcg cgcgcgcagt gatctagggc gaagcaaagc gaggaacagg 120
gaccgtctcg ttggggcccg aaaactggcg agatcgatgg acgctgccgc ggaggcctca 180
acgccgtcgt ccccgtcgaa gctgcgcgac aagctgcgga ccacggtgtg ctgctgcttc 240
ggcgtggaga gggctcgggt ggcgcggcgg cggggggcgg cgacggccgc gggcgagttc 300
cgctacgacc cgctgagcta cgcgtcaac ttgcagagg gcgaggacga cgacgcgtac 360
gcggacccca ccgcggcctt ccggtacagg aacttcaacg cgcgccttcc gccctcgc 418

<210> 19240
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-F6
<400> 19240

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tccataaacc ggagtcattt ttcaagatca atcatcctga attgcctctg tctactaca 120
caggcgttct tggcatgccg ggccttactg cttgggctgg atttttcgat gtgggcaagc 180
ccaagaaagg cgactgtgtc ttcgtctcag cagcatcagg agccgttggg cagcttggtg 240
ggcagtttgc taagctcaca ggatgttatg ttgtcggcag tgctggttct gacgagaagg 300

ttaatcttct gaaaacaaag tttggattcg atgaagcatt caactacaag aaagagc 357

<210> 19241

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E12

<400> 19241

ctattgccct aatcatctac acattcattg cagtttggtt tgttggtggc ctctctgggt 60

tccatctgta tctcatgagc acaaatcaga caacatatga gaacttcagg tatcgctatg 120

atcagcgaga caaccatac aacaagggag tcatggaaaa catcaaagag atcttcttta 180

caacgatccc tccttccaag aacaacttct gtggtagggc cgaacaggag catggtctga 240

ggccccgtcc aacgaatggt ttcattgagtc caaacatggg gagagctggt ggcgacattg 300

agatgggtag aaaaccagtg gcttgggatg agcctaggat ggaggctgaa attggtgatt 360

taggagcagg tctgagcaac ctgttgaggg acaaggatgg caggtttcgt accaca 416

<210> 19242

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D1

<400> 19242

ctcgcgtagt ccttcccaga tccatcgact cgctcgggac gccctcccg tcgtcccgt 60

tcgaagggtg ggcagccggc aagcgaacga tttcattcga catgaatccc gagtagtaag 120

gcctccgata atccttccct tcagtttctt tccgctgtct tccgcgttcg tgaccgtgat 180

ctatgtagct tttgctttcg taattccgtt ggatttttcg tttggtgctg tgggttgcgtt 240

gttcggatgg gactttacgg agatctgata ggatgcacgc tgggttgcct caccagattt 300

cgatctggat ctgggaatct gtgttccaaa tcgggattcc ctgaatgaaa gggcctcctg 360

cggccccggt gctttggtct gcccgcatgc agaaatttat gtactgcgcc atgcaccttc 420

gatggatgtg ttcgctctcc 440

<210> 19243

<211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-D10
 <400> 19243
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 acgccgagct actaaaggca caagccgaca tatggcggct cagcctctcc tacctcacgc 120
 ccctgtcact gaggtgcgcc gtggagcttg gcatccccac ggcgatctac cgccatggcg 180
 gggctgcctc agccgctgag ctggtcacgg cgctgtctct ccctccact aagctgcogt 240
 tcctccgccc cctgctgcgg ctctccgccc cgctggggcg gttcacgcgc gacaagcaga 300
 gcacggaaga agagcggtac cgcacacagc ccgtgtccta cctcctgggtg gacggcatcc 360
 ctcacgagga ccacatgaac cacac 385

<210> 19244
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-D11
 <400> 19244
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 cactttcttca accgccacaa gaaggacgag gagcagcccg ccggcgagta cgggtactcc 120
 gagaccgagg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa gaaggaggag 180
 aaggagcaca agcacaagca gcacctcggc gagggccggc ccatcgccgc cggcgccctc 240
 gcactctacg agaagcacga ggcgaagaag gaccccgagc acgcgcacag gcacaagatc 300
 acggaggaag tcgctgccgc ggcggccgctc ggcggccggc gctacgtatt ccacgagcac 360
 cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa gaagcaccac 420
 cacctcttcg gctgaccgta gtacc 445

<210> 19245
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D12

<400> 19245

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ccatttcggc gtctcgaagc cagtagatta ttcatttctc gatccacaaa tccctccaca 120
ctctccatcc cgaaccctga aatcgaggag cgcaggagga cgccgcaaag cgcgttggtc 180
cttagggttt gccggtaggg ttgggagggt cgcacccgcg cgcacacgtg tgaatattcg 240
agatctccga tatgctctag atgtagaaca cgacgagcga gaggagc 287

<210> 19246

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-D2

<400> 19246

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ccgctacctc cctgtggtgc ttggccatgg cggactacca ctctgtgtat aaggacgtgg 120
agggggcgag cacagagtgg gacgacatcc agcgcgcct cggaacttg cccccgaagc 180
cggagccctt caagccgccc cccttcgccc cgaagggtga cgccgacgag cagcccaagt 240
ccaaggaatg gcttgacgtg cgcgagcccc aagagctcga ggaactagag gacgatctgg 300
atgacgaccg ctctctcgag aagtacagga agatgaggct cgcagagctg anggaaagcc 360
gaaaagccgc gcgatttggt actatacttc cca 393

<210> 19247

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-D4

<400> 19247

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ggcgagaggag ccggcggtct gacctgttcc tactttact tcctagttgc gcgcgtgtcc 120

cgtgaggcgg gagctctgga ggccatggag agggagccgg cggtcgagga ggaggacgac 180
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 tacatcgcgg gcgtgcgcgc gcggttcggc gggcgggtgga tctgcgggct gtgcggggac 300
 gcggtgggcg aggagctggg gcgcgcgggg accccgccca tctccccgc cgaggcgctg 360
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 gac 423

<210> 19248
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-012-Q1-K1-D5

<400> 19248
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 gaggtgcgcc gtggagcttg gcatccccac ggcgatctac cgccatggcg gggctgcctc 120
 agccgctgag ctggtcacgg cgtgtctctt cccctccact aagctgccgt tctccgccg 180
 cctgctgcgg ctccctcgccg cgtcgggctg gttcacctgc gacaagcaga gcacggagga 240
 ggagcggtag cgcacagcc ccgtgtccta cctcctgggtg gacggcatcc ctcacgagga 300
 ccacatgaac cacaccgctc tgggtctcac ctgcacctcg acgcgctaca tcgaggcggn 360
 gatagggtcg gcggagtggg tcaagaggga cgtggtcacg tcaccgttcg aggagctgca 420
 cg 422

<210> 19249
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D6

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 tatgcgcgac gccagaggcc ggggtcagac aatcggtagc tcacagact caccagtgt 120
 gaactggtca cagggtcatc agttctcgcg gggcaccaat ttccagtgt ttgcaagtac 180

tggggatggt tcaatcgttg ttggttctgt ggatggcaag atcagactct attctaagag 240
 ctcgatgcgt atggcgaaga cagcattccc aggccttggg tccccgatta cacatgtaga 300
 tgttacttat gatgggaaat ggattctggg aacaactgac acatacttga tcttgatatg 360
 cactatcttc aaggacaaag atgggaaaga aaagactggg tttagtggcc gaatggggaa 420
 taggatt 427

<210> 19250
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-D7
 <400> 19250

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 agctcaaacc tacatgcaca tataccatgg acctcattcc gcggagtctc tactcactg 120
 ccatacgcga tcatcaatcg ccatacggcac cgctcgacct ctcttgatcc ttcacgcaca 180
 cgcaacgcct aagataatcc acagaagcgt caaggccacc aacgtgctgc tggattcata 240
 cttctcggcg cacgctggcg atttcggtct gacaaggctt attcccgacg accgaacgga 300
 ccacgcaaag atagccagca gctatagcca gctaagctac cttgctcccg agtacgccta 360
 catgttctgc aaaccaactg catgctgcga tgtatacagc ttcaggatca tactgctgga 420
 gcttg 425

<210> 19251
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-D9
 <400> 19251

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 tacatctect tcggtggcgg caggcatggg tgccctcggg agcccttcgc ctacctgcag 180
 atcaaggcaa tctggacgca cctactgagg aactttgagt tcgagctggg atcgccattc 240

ccagagaacg actggaacgc catggtgggtt ggcatacaagg gcgaggtgat ggtaaactac 300
aagaggcgga agcttgccgt ggacaactaa gattgtggcc gcagtctcta gatgcttgct 360
tcttgttgat tcaattgttt tcacatgttt gtcagcattt gttcagtgca agttctgctg 420
tacgcaagcc agccttggtta 440

<210> 19252
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-E1
<400> 19252

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cgcgaaaccc cagacctcgc gccgcccctt cccctccgcg gcgtcgtcct cgcacgctct 120
ccgatccaag atgtataagc tggggagagg aaaccgagc aaggtgcagc agttcatgac 180
cattaccggc gccaggcact gaaagctagt gattggcact tggaaggagc ttttgacttc 240
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agatataaag aacctgatgc tgatatgata atgggtggaag gaatatctca attttgcaat 360
gatctacagg ttgatcctca ggatattgtc atgcttgtca tatcatggca catgaaag 418

<210> 19253
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-E10
<400> 19253

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cagcagaaaa gcagcggctg gctgcttcac tttttgggtc agcagcagct aaagctgata 120
ggaaagcaca agcttctcga aagacagcaa aggacagtcc ctcaactgag aaagtggcta 180
ccactaatgt gactgcccag cctgttaagg agcaagtaat ccctgctgca ccaccgcctg 240
atctgctgga tctgggtgat gagcctgttt catcgagtcc accgtcggct gaccctttct 300
cacagctaga ggggctcctt ggaccagcat cggtgcgcc ggtgctttct ggaactccgg 360

ctaccagcac ttccaaagca ccaggccttc tgtcaatctt ctcatgatgat gtaccaaccg 420
gagtgactag tgtgtccacc g 441

<210> 19254
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E11

<400> 19254

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aagcagagct actgatagtt cagtgccgat ccattccaatg gtgcagcaga agccttcttt 180
acaaccagg gcaacatttt tgccggacct taatatgtac cagctgccat atgtcgtacc 240
attttaaaca tctggcgagg tagatgagaa ttagatgaga tgttgggaga gagctgtgtg 300
gatgtgggag ataatgggtt cctgcccga gttttccagc tttgttccat agtgtttctt 360
tgaggccaat agagttctgg cagaacttat aatgtaatat tgattaatta ttctgctcat 420
gtatgt 426

<210> 19255
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C9

<400> 19255

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tcattcagga cgagcgacaa cagagagAAC aaagtgctgg tggctgctgc tgcattcttc 180
ctgtgcattg cgctgctgc aatcgggaag gcacatgtta agaggcatag gacatacctc 240
acaaccctcc tctactacct gtccattgga ttcagcagct ccggactgtc gtacgtcgca 300
ggcgctctcc tcgcgaaggt cctagcacac ttcggtatca ttgatcaggg tgggtgcatca 360
gctcctgctc ctccaggtct ctcatccct gaagcagccg cctgggcttc ctactgagac 420

tggagc 426

<210> 19256
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B3

<400> 19256

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gaggtgcata ggctcgtggc caaccgggac cccaagttca ccaacttcgt cgagttccgt 180
acgcacaaag ttattctatag gagatatgca ggactttttt tctctatatg tgtggacatc 240
accgacaacg aattggcata cttggaatgt atccatctgt ttgtcgagat attggaccat 300
ttcttcagca atgtgtgtga acttgattta gtatttaatt tccacaaggt ttacttgata 360
ttggatgagt tcattcttgc tggagagctt caagaacaa gcaaaagggc aattatagag 420
aggatgg 427

<210> 19257
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B4

<400> 19257

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atgaggttct ctgatggtgc attggtgcct gcatacatc gcctggaaac caactgctag 120
gggctagccc aaagaaaatg tgtctagatg aacaaagaca tggggttcaa atgttttgtt 180
ttgatttcgg atatggacgc tgtcgatgct cttgttctc 219

<210> 19258
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B5

<400> 19258

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gacgctgcaa cttcgaccaa gattagcgag gcagttaaac aaaaagggg agctttcctt 120
gaagctccag ttccagggag caagaagcca gctgaagatg gccaatggg cattcttgct 180
gcagggaaca agccattgta tgatggatatg attcctgcat ttgatgtact ggggaagaag 240
tcattctttc tgggagagat tggaaatggg gcaaagatga agcttgtgg caacatgggc 300
atgggaagta tgatgaattc ttgtccgag ggactctgtt tggccgacaa aagtgggctg 360
agcccccaaa cacttcttga tgtactggac cttggtgcc tgcgaaacc aatgttcaag 420
ctg 423

<210> 19259

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B6

<400> 19259

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caatgcagcg cgaaggcctt tcaaagattt tctcagtaca ttgacaagaa ccaaagaaag 180
tatatcgcg gcgacacgct ttgctatgga atgtgctaaa tttggcattc tggatgatga 240
tgatgccttt ggtgttaggc tacatgtagg gaagcaagca gaggtcttga accagattgt 300
gtagagctt ccatcagaac atccactggc tgaaacaaga cactgagag agctgctagg 360
gcacacacct ccacaggtat ttgctggcgg agtgcttggg tttgcagtag ccacatttac 420
agcagatgac 430

<210> 19260

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B7

<400> 19260

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tggtctgagac gatggccgga ggcggcgacc actcccagac gaacggaggc cacgtcgacc 180
agagggcctt ggaggagggc aggaaggagg agttcgctga ccagggtgc gccgccatgg 240
tcgtctcgt cccatttatc cagaagatca tcgaggagat ctccggcacc tacttctga 300
tgcttcgagg gtgcggcgcg gtgacgatca acgcgagcaa gaacgggcag atcacgttcc 360
cgggcggtggc gatcgtgtgg gggctagcgg tgatggtgat ggtgtacgcc gtggggcaca 420
tc 422

<210> 19261
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-B8
<400> 19261

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tgccgggtca gctggccgtc gcgtttctcg ccttgttctc ctctctgcc ttcttggcgg 120
tgtctggcca gaagttcaac gccatcttca gcttcggcga ctccatgtcc gacaccggca 180
acctgtgcgt gaacgggtccc ccgcccggcc tgacgctcac ccagccgccc tacggcgaga 240
ccttcttttg ccgcgccacc tgccgctgct ccgacggccg cctcgtcgtc gacttcttgg 300
ccgagaagtt cgggctaccg ctgctgaagc cgtcgaagca gggcgggtca gacttcaagc 360
agggcgccaa catggcgatc attggcgaga ccaccatgga ctggggcttc ttccagtctc 420
tgggcat 427

<210> 19262
<211> 206
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-B9
<400> 19262

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aaaccacccg agcatctcca atcaaacaca caaacccaac cccctaacaa caccctaaacc 120
 caacaacaac cactactact acacaaatct tacatatcta cacaacaaca aatatcaaca 180
 aaaaccactc aatcaactta atgcca 206

<210> 19263
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-C1
 <400> 19263

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 taaagggttta ggcgtgcccc ttggattcaa aggcttctgt atatctatcg agcacgttta 120
 tagatttact gatcagattg ataacatcac acacacacga agttcatctt caacatgctt 180
 agtattatta tgcattctgat ggtatggat tgtctctgat agatccattt gctgaggcta 240
 atgctgagga gtctgggtgtt ggtcttgga cgaaggatta tgtgcatatg cgcattctaag 300
 agcgcaacga tagaaagagt ctgactacag tccagggtct gaacaaagaa ttcagctata 360
 acaagaacct cattgatctg aagaaggat tctgctgcaa tggtagtgaa gtgc 414

<210> 19264
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-012-Q1-K1-C11
 <400> 19264

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 ttaccgtaga acatcccagc cgcattctgca ccgaaacggg gattgatcct cgtgttccca 180
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 ctgatgctgt ccagacctgc tttgtcgact gcgtcctcaa gaacgactgc atctgcagca 300
 gcaagatcat ccccgccgct gacgacccaa aggctaattc caagtgaagt agtactgcta 360
 tcatcccgaa taatgtcgta cgtatagtag ctgctgaata aacctccat gcaccaacag 420

ggagagag

428

<210> 19265
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C12

<400> 19265

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gtcccgtggc ggtggcgggtg gcggcggtgg ctacggcggc ggtcgcggcg gcggcggcta 180
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gggtggtggc ggccggtacg gaggcgggtg cggtacggc ggtcgcggcg aggggtggtg 300
tggcggctac ggccgcgcg gcggcggtg gagggactga tgtgtgggcc catcctggct 360
tcggccgagt tatcttatct atctatagta tcgtgttacc gttcgcttct gtcaccgtgt 420
tagtg 425

<210> 19266
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C2

<400> 19266

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agttttatag atcagtatct aaatcagatt acaccacaat gcgtcttggc tttatcatga 120
ctcactgccc tggaaatcca aaatttgatt tccatagata catggttaagg gtttttagagg 180
cggattttta gaaagtggta ggcataagct ggtacttgtg ggtcttcgtg gtgataatttc 240
tgttgctgaa tgtaaatggc tggcacacat acttttggat tgctttcctt ccccttattc 300
ttctgttagc cattggcact aagctggagc atgtcatagc tcagctagcc catgatgtag 360
ctgagaagca cacagcggtc gagggcgatg tgatcgtaaa accatcagat gaacacttct 420
ggttcggc 428

<210> 19267
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-C3

 <400> 19267

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ctcactgccc tgtaaatcca aaatttgatt tccatcgata catggttagg gtcttagatg  180
cggattctaa taaagtctac ggcacagct gctacttggt ggtcttctta gcgatatctc  240
tcgctcatga ctgattatgc ttgtcacaca tacttttgga ttgctcacct tccccattatt  300
cttctgatag ccattggcac taagcttgcg catgtcatag ctcacctagc ccatgatgta  360
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ct                                                                 422
  
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<210> 19268
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-C4

 <400> 19268

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tatgggtctag ataaccacgc ataatcacac cacgtgatct ggaactgggc actaagaaat  180
atattgtgca gagtgcagac tacagaatta caacaatagc tttgaactat aaattgacca  240
gagattcaga ggagcattac tggcagtggc caaacgtgg tgcagtctct gcacctgcc  300
actgtgttcc acccattttg cattggccaa aatatactac taccggatca atgttctg   358
  
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<210> 19269
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C6

<400> 19269

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cgtcgacatg atcatgctcg cgcacaaccc cggcggcaag gagcggtagc agcgcgagtt 120
ccgcgagctc gcaaagggcg ccggcttctc cgggttcaag gccacctaca tctacgccaa 180
cgctggggcc atcgagttca tcaagtgaac caccgtcgcc gcgatgagat ggcattggctg 240
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tattgcgctg ctacctcgtt gctctcgcgt atgcatgtac ttttgcttaa ttttctttct 360
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gtcgagctc 429

<210> 19270

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C8

<400> 19270

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ctgccttggc gccgcacgtt gcgctcccgc tctcctctct cctcgcccc tcgccctctg 120
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cgccggagca gttcaacatc ctacgcctca agggcaccga gtaccctgga acgggtgagt 360
acgacaagtt ctttgaggag ggcatttata aatgtgctgg atgtggaact cccttatata 420
aatcatcgac a 431

<210> 19271

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-012-Q1-K1-B2

<400> 19271

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tgctggcggc gggggccggg acggcgctcg cggcggtgag ctgcggcgag gtgacgtcgt 180
cgggtggcgcc gtgcctcggg tacgcgatgg gcagcgcggc gtcgccctcc gcggcgctgt 240
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gcaactgcct caagagcatg acggggccggc tcggcgggcg cgtcagcatg gccaacgccg 360
ncaacatccc cggcaagtgc ggcgtctccg tcggcggtgcc catcagcccc accgtcgact 420
gcaccaagat caactgatcg atgg 444

<210> 19272

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H12

<400> 19272

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gctggagttg taactaacgt caatgcagat gacaaacgct ttaaagaggt tgaccatgaa 120
aataatgtaa catatgtgaa ctgttgccgt gattgtaaga actgaaat 168

<210> 19273

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H3

<400> 19273

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atgtatccgg ccaagcccac cgtcgccacc gccagcgagc cggtcaccgg gatggcggcg 120
ccgccggtga ccggcatccc catcagcagc cccggccccg ccgtcgcggc cagccagtgg 180
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ccgtgcgtga cgttcgggcg gatcgcgag gtcgtggacc gcggcgcgac gtcgtgcgcg 300
gcggcggggg ccactacac gctgctggcc tgcttcacgg ggttcagtg ccactggatc 360
tactcctgca cgtaccgctc caagatgcgc gcgca 395

<210> 19274
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-H6
<400> 19274

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taagcataga atctgagaaa gcaaaaccac tacctgttga gggatcgaaa ctgagtcctt 180
cacctcttca ggctcctgct accccaaaag ctgcacacgt tgactcacca aaatctccca 240
tgaaacctga gcagcatttc gattcagatg cggagcttgc aaccctggga tcagagatcg 300
ggaaagaaga caaagagtac tcagttgagg agataagcgg gtgggagttt gacgagctcg 360
aagaggacct taagagctga cacaagaat cgacaaacag aacac 405

<210> 19275
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-H8
<400> 19275

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ttgggggatgc caaggagaag aataggaagt tcaactgagac tgtggaactt cagattggtc 180
tgaagaatta tgatccacag aaggacaagc gtttcagtgg ctctgttaag ttgccccata 240
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agaagatggg acttgactac atggatgttg aggtctctca gaaaatgaac aagaacaaga 360
agcttgtaa gaggcttgcc aagaagtacc atgctttctt ggcacagag gccatcatca 420

agcagattcc ccg

433

<210> 19276

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-H9

<400> 19276

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aattatcaat atcaagaaag gacaattctg tgcgccttct gttatggtga actctacaga 180

gaaagtaagg cttgctggga atccaaatgt gatggctctgt gagcgtggta ccatgtttgg 240

ctacaatgat ctatttgttg acccaaggaa ccttgagtgg ctgagggaaa gcaactgccc 300

agttgtagct gatgtaacac atgctctaca gcaaccagct ggaagaaagc ttgatggtgg 360

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ctgtggtg 428

<210> 19277

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A1

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<210> 19278

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A10

<400> 19278

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aagggcgcg cgggcgcaa ggccggcggg ccgaggaaga agtcggtgac gaggtccgtc 180
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gccgaggtgc tggagctggc cggcaacgct gccaaaggaca acaagaagac ccgcattc 360
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gtcac 425

<210> 19279
<211> 425
<212> DNA
<213> Zea mays
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<400> 19279

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atatttgacc tcaatggcct tccatcagaa gaaaatcctt acctcttcaa tggcgatttt 240
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taccocaaaag ctatgtacct tgcaagagga aatcatgaaa gcaagagcat gaacaaaata 360
tatggctttg agggggaagt gaggtcaaag ctgggtgaga agtttgattga actttttgct 420
gaagt 425

<210> 19280
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-A2
<400> 19280

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gaagttaa atcaggcaca caagctgtac tttgccatgt ccccttttgag tacacatcag 180

tatcatgcag gaggtaatgt ctagtagtgg tcggttttagg tgggtgtagtc atggggaactc 240
gacatcagat acctgggtctc ttttgattgt gatgttatct tgcattattg ctctgtctgg 300
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<210> 19281
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-012-Q1-K1-A5
<400> 19281

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tcttggaggt ggccgacaag cagccgaac ccgaaaccgc tgccttttgg gcctctgact 180
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ccacatctac gggctctcca tcaccggcct ccgcttcttc accgtgtacg ggccgtgggg 360
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<210> 19282
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-012-Q1-K1-A6
<400> 19282

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cctccggggg gctatataaa aacctatggt cctgcagacg aacgttgctt tcaatttttc 120
ctatctactt tacatacttt atatatttta caatcactcc tactctcaat cgccagtact 180
ctgatcctct tactatatct tataccaact caataccatc acaccattat ccttacatca 240
tcaactccaa ctat 254

<210> 19283
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-A7

 <400> 19283

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 aggtggcgtc ggcggtggcc gaggcgacgg cggacgaggc gtggcgctg ctgtcggact 120
 tcctggcggt ccaccggtgg caccgcgcg tggccgcgtg ccgcctcgcg tccggcacc 180
 cgcgcgcgcc gggctgcgtg cgctactgcg agggcaccgc caccgccgcc gacggcgagc 240
 cggcgcccga ctggcgcac gagacgtgc tggagcacga cgccgagcgc cgtttcttcc 300
 gctacgagat gaacgacaac atcgtggtc 329

<210> 19284
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-A8

 <400> 19284

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 cgtcgctgac cccggcggcc gtccgcgaga tgcagaagga tctcgaggtc caggccaacg 120
 ccctcagcaa gatccagaaa gacatcgcca agaaccacca ggtccgcaag cagtacacca 180
 tccaggtcgg cgagaacgag ctcgctctca aggagctgga gctgctcagc gatggggcca 240
 acgtgtacaa gtcctcggc ccggtgctgg tcaagcagga cctcgcgag gccaaaggcca 300
 acgtcaagaa gcgcctcgg tacatctccg cagagctgaa gcggatggat cgggcgctca 360
 aagacttggg ggaaaagcaa aacagcaaga aggaatcgat attcaagttg cagcagagga 420
 tgcaggctgt acaagcta 438

<210> 19285
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-A9

<400> 19285

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gggtcatggg gacgtttggg tatgttgcac cagagtatgc gggcactggc atgttgaatg 120
aaactagcga tgtctatagt ttcggaattc ttatcatgga aataatatct ggccgtgtac 180
ctgttgatta caacagggcg ccaggggaga ttaatctagt tgagtggctg aagacgatgg 240
tcagcaacag aaattctgag ggggttttgg atccaaagat gactgagaag cctacttcta 300
gggcattgaa gaaggctttg ctagtggctc tgcggtgctg agaccctgaa gtcgcgaaga 360
ggccaaagat tgggcatgtc attcacatgc ttgaggttga cgatttcccg tacagagatg 420
agcgcc 426

<210> 19286

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B1

<400> 19286

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cggcattgaa gatgtgagaa gagaagttag aatattgagt tctctgacag gccacagtaa 120
tttagtgcag ttctacgatg ctttcgagga tgaagataac gtgtatatag ttatggaatt 180
atgtaaagga ggtgaactgc tggacaggat attggctaga ggtggaaagt actctgaaga 240
ggatgcgaag gtcgttatgg tacaaathtt gagtgttgta tcattttgcc atcttcaagg 300
tgttgttcac cgtgatctga aaccagagaa tttccttttc tcttcaaagg atgaaaactc 360
tcccttgaag gtcataagatt ttggcttgct tgactttgtg aagccagatg aaagactaaa 420
cgacatt 427

<210> 19287

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B11

<400> 19287

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tctccttgga accaccaag gtaggaggat gaccgttcga tttcatgatt gtaaattctt 120

cagtagtggt tcttttctcc ccgcctggcg attgcagaaa actgcatata cgagtgtaaa 180

tgtattttgc tcttcgatat ggtttttagct ttcgtgttgt gcgaggatag ctcttaagt 240

gggatgtgtg atatagtctt ttctgtataa cacgttgtca tggagagatg ccttttagac 300

<210> 19288

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H11

<400> 19288

cccacgcgtc cggaacattg gaagcgggtt atgcaaggcc atgctggtgc caacttggtg 60

cctcttggtg cttccaaccg gattggcaga gaaactgttg aactgagca tggcaagagc 120

tcgataacct tctatgggaa ttccttcatt gcaggaccaa ccggagaaat agtgaagctt 180

gctaacgaca aagacgagga agtgctggtg gcagagtttg acttgatga gatcaagtcg 240

attaggcatg gttgggggat attcaggagc cggcgccctg aactatacaa agtgctactg 300

acgttggtat gcgagaaaca atcataaacc ccggtctcac gcttaatagt ggtaaggcac 360

aggcaggctc cagctccaca tcaatgttag attttttttt ctcttttttt accctgtcca 420

acgatgccat 430

<210> 19289

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F12

<400> 19289

cggacgcgtg ggcggcgcc tttttttttt ataggtggac ttaatgtttg tgtaaggcga 60

ggcataacat catgtctcaa tggacgttgc cgttgacacat tgggtgcattt tatattt 116

<210> 19290

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F2

 <400> 19290

 gagatcaaca aggtcgttaa gcttcaagaa gagcttgaca ttgatgtgct tgtgcatggc 60
 gagcctgaga gaaacgatat gggtgagtagc agctctccgg ttttgcgttc 120
 actgccaatg gctgggtgca gtcttatggg tcaaggtgag tcaagcctcc gatcatctac 180
 ggtgacgtga gccgacccaa ccccatgacc gttttctggt cgaagacggc acagagcatg 240
 acgtctcgcc caatgaaggg gatgctgact ggcccagtag caatcctcaa ctggctcctc 300
 gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 360
 gaagtcgagg atcttgaggc tgggtggtatt caaggtatcc aaatcga 407

<210> 19291
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F3

 <400> 19291

 ccaggatata ttgtttcaaa ggacatagct aaagaagttt acaggaaaca caagagtggg 60
 gagttaaaga tgttcaagct ggaggatgtc gcaatgggaa tatggatcaa tgagatgaag 120
 aaggatggct tggatgtcaa gtatgagaat gatgggagga ttttggttga aggatgcgag 180
 gatggctatg tgattgctca ttaccaagaa ccaagggata tgatgtgcct ctgggatcag 240
 tttcagaaaa caaacgagg aacatgttgc aaataataac agaaatcatg cgaatggtgt 300
 tttatgttac ggtggctgct ggttgccggt gcttgaatag acacctttac gctaaaacgt 360
 tcttgatgta ta 372

<210> 19292
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-F4

<400> 19292

gagaaagaga acagagcgag agagggggag gacgaagccc tccgcgtcgt ctccctgcggt 60

tgcattccac atctattctg cctcggtctg caccttcgac ctcgctgaaa gttctgacct 120

caaactgaaa ggggcctgtg aagcgtttcc ttgcggcagt gcaatggagg tgaacatctc 180

tggttctatt ttcacgtcgc ggtaacaaga aactaatcag ggagtctctt cccatttctt 240

gcagtggagg aatgttttagc tacagccgcg cagcatgctt tccagagcat aaattggtgg 300

aagagaagtt tgatgctacc actttgccag aagaaccgag ccagacacaa taacatcaaa 360

ctgagtctga gatactgcac tttaaaaatt ctttcgatat tggcagattg a 411

<210> 19293

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-F8

<400> 19293

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gtacacagaa gtgagcgacg acctgacgac acaagttcag aacaaggta tccccatgag 120

cagaatcgac gacgccgtct acaggatcct tcgtgtcaag ttcacatgg gcctgttcga 180

gaacccttac cccgactcta gcctcgccgg cgagctcggg aagcaagaac accgggaact 240

ggcgcgcgaa gccgtcagga aatccctggg tctcctgaag aacggcaagt cctcctacgc 300

tccgttgctg cccctcccga agaaggccgg caagatcctg gtcgccgga gccacgcaa 360

cgacctgngc aaccagtgcg gggggtggac gatcacgtgg caaggaagca gcggcaacac 420

cactgccggc acgacgatcc ttttcgggat cg 452

<210> 19294

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G10

<400> 19294

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ctgttggact gatgggctcg accatctaac agcaacaaga gaacgtgctg attcattgaa 120
 ttgctcctgt taaggctgta actcacattg ctcattgtta ggctgtaact cacatgagca 180
 tatttagaca gaaaaggctct ctggctttct gcttagaaac atacatcctg tttgtagcat 240
 gtaaacttta gcgatacttg tagcctttgt aagtcattgt gtaacattag tcgttagtgc 300
 cccgatcagg caggctgcct ttggcaagag aaaatgcagc acaagcttgg tcttccccctc 360
 cccagaatac atggtcaaata gcgctgtttt atcatgtaat ctgcaatgat caatggacat 420
 ccttc 425

<210> 19295
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-G12
 <400> 19295

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 gggagctcta ctgcctcgag cacggcatcg agcccgatgg caccatgccc agtgatacca 120
 cggttggcgt cgcacatgat gccttcaaca cgctcttcag cgagaccggt tctggcaagc 180
 atgtgccgag ggccatcttc gtcgaccttg agccactgt cattgatgag gttcgactg 240
 gctcgtaccg ccaactcttc caccagagc agtcattctc gggcaaggaa gacgcagcta 300
 acaactttgc cgtggccac tacactgttg ggaaggagat tgtcgatcta tgcttgacc 360
 gtgtgcgcaa gcttgagac aactgcactg ggctgcaggg attcttggtg ttcaatgctg 420
 ntggtggt 428

<210> 19296
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-011-Q1-K1-G5
 <400> 19296

ctgcctgcc tctccccgc cgcgcgtca ctccccctc cccgtcaact ccgggttcgg 60

cgcgaggctg agctagcggtt tggagttctc gagacctgct gtgatggcga cagagcaagc 120
 ggcggagaac tacacggtgg aggacctcgt ggccctgaac ccctacaacc ccgacatcct 180
 caacgacctc gagaagtctc tcaatgagca ggtctcatct cagacatata actgggatgc 240
 aaatctcagc cttcttcgct tgtaccagag tgagccagaa aggatgagca tacagattgt 300
 ggcccacata ctgattaagg ctctcatggc aatgccagcc cctgacttca gtttgtgctt 360
 attcttaatc cctgaacatg tgcaaattgg 389

<210> 19297
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-G6

<400> 19297
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 ggccaagatc cagggcaagg agggcatccc tccagaccag cagcggctca tttttgccgg 120
 caagcagctc gaggacgggc gcacgctggc cgactacaac attcagaagg agagcaccct 180
 ccacttggtg ctgcgtctca ggggcggcat gcagatcttc gtgaagactc tgaccggcaa 240
 gactatcacc cttgaggtcg agtcttctga taccattgat aatgtcaagg ccaagatcca 300
 ggacaaggag ggcatccctc cggaccagca gcggtcatt tttgccggca agcagctcga 360
 ggacggggcg acgctggccg actacaacat tcagaaggag agcacctnc acttggtgct 420
 gcgtctcagg ggtggcatgc 440

<210> 19298
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G7

<400> 19298
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 gacagggacg acagggacga gggcgctggc gtcgtcacca ttccgcagat cgtcaggtac 120
 ctccagggga agctggagcg gatcggatgc caggccaggt tcggatgatg atgatgacgg 180

tgatggttcg cctgcgttgc gtgcgcgggc gatcagcgta tcatcatcgt ctttgttctt 240
 ctttaacagc ctgtctgtac catcaaattgt acaaaagcgc gtggcttttc ttctgtggat 300
 gcccagaatc tgttgggtgc gatcagtcga tagaggaacc aaagtgagtt gctgactgcg 360
 attggaagcg gagtgcattt ttctcttctg atggacattt ttttcg 406

<210> 19299

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G8

<400> 19299

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 gagacaatgg tgaaggcagt tgctgtcttc gccggcactg atgtcaaggt caccatcttc 120
 ttttcacagg aaggggatgg tccgaccacc gagactggaa gtatctcttg cctcaagcca 180
 ggcttgcatt ggttccatgt gcacgcgctt ggcgacacca ccaacggctg catgtcgact 240
 gggccacact tcaatcctgt tggcaaggag catgggtgcac cggaagatga ggaccgccat 300
 gccggtgatc tggggaatgt gacagcggga gaagatgggt ttgttaatgt caatattact 360
 gacagccaga tacctcttgc tggaccccccac tcgatca 397

<210> 19300

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H10

<400> 19300

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 gatgtttcgt tgaagatcat atactgtgga gtctgttatg cagacgttgc ttggacacgg 120
 aataagctca atgattcaaa atatcctttg gttcctgggc atgagatagc tggagttgta 180
 actcaggttg gtgcagatgt caaaggcttt aaagtgggtg accatgtagg tggttgaaca 240
 tatgtgaact cttgccgtga ttgtgagaac tgcaatatct gtctagacaa ccattgcccc 300
 aaagcagttt atactttcaa tggcattgat acagatggaa ctgtcacaaa ggggggttac 360

tccactcaca ttgtagtcca tgaaaggtat tgcttcaaaa taccgatgg ctaccctttg 420
gcga 424

<210> 19301
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F11

<400> 19301

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ccttgcaaca accacgcaaa tagatccac tcatatacac tccagtagct agtagtagtc 120
gacccatctg catctgtatg tgtgcttgcc cccggccggc cacctttccg gcgatccat 180
catctagagc tagctcatca tcagtctttg gcgtgtgtgt atgtatatgg tggtgaccag 240
cagctagcta tagcagcagg gtggttggtc tatagttcgt tcctatgggt atggcggcgg 300
cggcggcggg actgctcgcg ctggccgccc tggcgacgga ggtggccgcg gcaggaacga 360
cgtacacggg gggcgcgccc gacgggctgt gggacatgca gaccgactac gcgcagtggg 420
tgaaga 426

<210> 19302
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D7

<400> 19302

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ccaagcccca acctcgccga cgcgcctcgc gtcgtcgtec cgctcggtc ctctctcgc 120
cctgccgatg gatccggccc cccccgagcc tgtccccgca cccgccactg acaccgatgc 180
cgagaccaat ggttatgagg atgcctctga attcgaggat gcggaggctg ggggcgaggg 240
cgctggggcc gggaccgaga ccgggaccgg gtccgggtcc ggaacgatgc cggcgggcgg 300
tgtagcggag atgaaggagc tgcccagga gcttgccaag ggggtggtgt gcctcgaatg 360
cgagacatcg gccgaagcgg cgggtgc 387

<210> 19303
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D8

<400> 19303

cgcgaaacctg ccgctaccgc acgcccgcag tcgcgcgcaa atccgccgcc acgaaccggc 60
 cgcacgccag cctaccacct ccctaagccc gcctgcccgc ccgcaatcct gccaccgccg 120
 cgatctggct gcttgcccgc cacaatccag ccaccccgcc gcgaccgctc cgtgcatgcc 180
 gcaaccgctg cgatccgccc gccctcctca atccgccgc ccgccgcaat ctggccgccc 240
 gccgcgcgtg accggcgaga tccggtgcag cggcaaatgc aggtgtagag ggaggcgaca 300
 atgtcccaga tgctgtggag tgtgggtctg aaaaggacgg gca 343

<210> 19304
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-D9

<400> 19304

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 tcacaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggg gtcttcggta 120
 tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc tggcatctta 180
 cctttatcac ccttgttcct ccaacaatca tcagccctat tacagcagtt acctttgggtg 240
 catttattga cacaaaacat cagggcacia caactacaac aacttgctgc agcaaaccctt 300
 gctgcctact ctacgaaca acagtttctt ccattcaacc aactagctgc attgaactct 360
 gcttcttatt tgcaacaaca acaactacca ttcagccagc tatctgctgc ctac 414

<210> 19305
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E1

<400> 19305

aggcaatgcc ctgttcattg ctaccggcag actgcgcaaa tttcatagtc atccatttga 60
aatcgtaat gatgtggtgg gcaacattta atgtggtaca aatatactac tagattttct 120
gtgcattaca acggaacatg tttggtagta ttgtccaaaa aaaacttgtc aagctaaaac 180
caagatacag aggggtccgtg tcaacatggt actatgtgtt ttcagtgtt tggtttttta 240
aaggaaatat ctgtctgaag tatgcaaacc gtaatgtcta attaaactta tgattccat 299

<210> 19306

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-E10

<400> 19306

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aggaaaggaa ggaagatgat gagcaaggag gcagtgggtga acgcgttcct ggggtgcttc 120
atgcacgtgg ggctggcgct ggtgctcgcc gtctacctcc ccgtggcctt tgtgtgccgc 180
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gtcctcgta cgggcgcgtc ctccggcacc ggcgagcacc tgggtgtacga gtacgcgagg 300
cacggcgct gcgtggcgct ggtggcgcg acggaggtgg cgctgcgcgc cgtggccaag 360
gcggcgcgcg acctgngcg ccccgacgtg ctggctgtgc cggccgacgt caccaaggtc 420
gacga 425

<210> 19307

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-E12

<400> 19307

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cggccgcagc cttcagcctc ctgtccccgg ccgaggccat gaagcgggag gaccccggct 120
 gggttcggcgg cgccgaggag ctgcgccagg gcgtctggac cgtcgaggag gacctctaca 180
 ccacgctcaa gaagaaggtg agccgggtgt acgccgcgcc gccggaggag aggaagaagc 240
 gcgtctacag caccgcgccg tccaagttca ccaccatcga tcagtatagc gggctcgggt 300
 tcaggctggt gaggatgggg ttcgaggaca tgtacctctg cagccccgga ggcattgtacg 360
 acaagttcgg caaggactac tttctgtgca cggngatggc gtccatgttg gtgcccgtcg 420
 tcgtcaa 427

<210> 19308

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E2

<400> 19308

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 gggaagtcc ctctccaga tccagagac cccttctcct tgaagccagg atctcttaca 120
 tttgctgctt ccaaaccac tctgcaaaa tctgaaagtg ttgctgcagc aatagccggg 180
 gctcgaactg cagccactca attctcaaag aaggatcgca aagctgctgc tagtagtgaa 240
 attggtacag aagagcaatc ctggggaagc catggcggta gcagttcagt tgattgcaat 300
 ggtctgtcaa ttgtccatgg cagctatgcg catctacaga accagaatcg gccttcaatt 360
 ttcccgagca ctcaagcga ttcccaaaat ccaaattctg agcctcggaa aaaccctaga 420
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<210> 19309

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E3

<400> 19309

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 caggccatct acctcctcac cactggtgcc agggagagtg ctttccggaa catcaaaacc 120

attgccgagt gccttgacaga tgagctgac aacgctgcc agggctcatc caacagttac 180
gccatcaaga agaaggacga gattgagcgt gttgccaaagg ccaaccgttg aactgagctt 240
gtatcctggt gcactctgcg ctggaaactt ttatgtcgct ggcagtcgta tcggttcttg 300
ttttaccaat gtttagagtt ttttgagacc tatatgcggt tttggttttc agtgcacaat 360
taaaattact gagtaatgta gttgattggg aa 392

<210> 19310

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E4

<400> 19310

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tgtctgcagt aacttcctgt gtggctcaaa accaggggac aaagttcaga tcacaggccc 120
ctcgggcaaa ataatgcttc ttcctgagga tgatccaaat gcgactcata tcatgattgc 180
cacggggact ggtgttgctc cctaccgtgg ctacctacgt cgcattgttca tgggaagatg 240
tccccacttt taaatttggg ggtctggctt ggctctttct tgggggtgcc aactcttgcc 300
gcctttctcta tgatgaaaag ttcacaaact acctttagca gtatccagac catttcaggt 360
acgacaaaac gc 372

<210> 19311

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E5

<400> 19311

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catcatcaac gggatcagag atgagcgagg aaatcgatgt ccagcttagt ccagaggaga 120
aagaaagttt agatgagatc atcaaggaag ctgagagcga cttggagtct gaggaagtcc 180
tgatcaatc ccttgccatt gttgccgaga atgaaggtct ggacaaggac tcatctgcaa 240
aactcacaat ttactgtga ggtggtgttt ggaagaatct gacatagggc cccttgagtg 300

ttatggataa gcacatatat gcaggacaca ctgtcaaacc atttcccagc ctgattggaa 360
ctggaaagtc tggttgtttc 380

<210> 19312
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E6

<400> 19312

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tgtctccttt gtcacatca tcagctcaga tctagcagct tcgccttctc agattctaaa 120
tgaaattctt ggagatagag agcgtatcca atctctgtat tctgagattc ctgggagAAC 180
cacaagcaat gccagtacct ccagaagaac ttgtaatttc agtgtggacg caactggaga 240
tgaaagcctt tctgttgaag cacacaattg taaactcgac aatactgcgt ctattttatc 300
catgaggagc tgcgctgaca agctgtggaa gagaagaaaa ggttcaaac tttaaaatca 360
gaagataaac cagaggaagc aatgcaagct ttcaagtat 399

<210> 19313
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E7

<400> 19313

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ttgctgaagt tgatagtgt tacatagtta agctctatta ttctttccaa gacgaagagt 120
tcttatact catcatggaa taccttcttg gtggagacat gatgacttta cttatgcgca 180
aagacacact aacagaagat gaagctagat tttatattgc agaaactggg cttggcatcg 240
agtctattca caagcaccac tatgttcacg gggatatcaa accagataat cttttggtag 300
atcgcaatgg tcaccttgag cttttctgact tcggtttggg taaacc 346

<210> 19314
<211> 434
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-011-Q1-K1-E8

<400> 19314

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aatgtcgcca gaatggtctg aaaaacatcc ataaattttc atggcctgaa cattgccaga 120
actatttggc acgtgtagtc actctcaagc ctgacatcc ccgctggcaa aagaatgatg 180
ttgcagctga aatatctgaa gcagattcac ccgaggactc tctgagggat attcatgaca 240
tatcacttaa cttaaagctt tccttggaca gtgaaaaatc aggcagcaaa gaagggaatt 300
caaatgcttt gagaaggcat ttgaggatg cagcgcaaaa gttgtcaggt gttaatgaca 360
tcaaaaagga tgtgccaggt gagaatggta agtggtcggc attgcgtang aggaagcaca 420
tcattggaat tgct 434

<210> 19315

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E9

<400> 19315

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tttgaagtct agtgttgagg cctttctcag tgaaaatgat actgaccag ccacacctca 120
actggagacc accatgtttg cccctggaag tagaatggag aactacaaca ggaagcctgc 180
aagtccaagg gataccacag ctcttgctaa tttaaagaa gtctacagg aatcaggttt 240
agagattttg tacagcgtec ctgtactaca ctgtccacaa gcatttggag ttgttttgaa 300
ggccatggaa aaagcgaaca gcactggaaa ggtaattcca ggctggaagg ttgtatatcc 360
tggcgacaca cgaccctgtc caggtcttat agacgcatcc agagatgcta cagtgttaat 420
acatg 425

<210> 19316

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F1

<400> 19316

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tgaattgggc actagttgaa ggccgacctc catctgctgc tgaatgtcat cactgtggta 120
ttaatgcaac agctacacca atgatgcgtc ggggacctga tggaccaaga aactatgca 180
acgcttgtgg cctcatgtgg gcaaataagg gtctcctgag ggacctatcc aaatctcctg 240
tacctcttca ctctatacaa caatcagctc caattctaaa tgggtggtcag aacggaagtg 300
ccatgtctgc gcttggctct gagctagaga atgctgcagc agccatgggc aatggccacg 360
agccataagg tagtgggtgt tagccatgtg ctaaagccac gagcatcatc gcgcaatgat 420
ctctgc 426

<210> 19317

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F10

<400> 19317

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aggtctacta tacctggaaa ttctaccatg ggtgtgaggc cagcttatgg tcatgttaat 120
ggagggcaga tacatggtct taaaaacctt ggttgttctt cggtagctga tgctcagcca 180
tcaggttgcc catctgagtc tgttattagt aggaggaggt ttgagttcat gagaaagagg 240
gcctttgacc aggaaagctc ttccagatca gtgaacttaa gcttaggtca ttcaactcct 300
acagatattc gcagaatcag aatgaatgaa caatcacttt gtcaacaaat accacgaagc 360
agcagcagaa gccatcagga atcggcaggt tcagttagga caagacgacc ttctcctcat 420
gccact 426

<210> 19318

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D6

<400> 19318

ggcaaggcca atccgaaatc tcgagcggtc gcgcccgcga ccacagcaaa gaggagggca 60
cagcacgaca gcgccccagg gtccctactc tcgtcgcagc ggcagcactg aggggaagat 120
gtcgtcgggtg ttcagcggcg atgagaccgc ccccttcttc ggtttccttg gcgcccgcgc 180
cgctctcggtt ttctcatgca tggggggcgc gtacgggacg gccaagagtg gcgtcggcgt 240
ggcgtccatg ggtgtcatgc gccagagct cgtcatgaag tccatcgtgc ccgtgggtcat 300
ggctggtgtg ctgggtatct acggcctcat catcgccgtc atcatcagca ctgggatcaa 360
ccccaaggcc aagccatact acctctttga 390

<210> 19319

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C2

<400> 19319

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cggcgacgcg cccggacgtc ggatctacgc cgccgcagga ggggggaggc ggcgctgtgg 120
ccgttctctg cccgtgagcg cccggatccg tcccgcgcga aggattatgg atccgaaaga 180
gaagccaaat gtatcgagca gtccaccaac accacggctg gactgcataa aatgctttga 240
tatgctctgg ttctgttact caccattcca ccagatgcag aattattacc ggtatgggga 300
gttcgacacc tgcttcggca agtggggcga tcttatgggc tgctcgtc tcaagacaaa 360
gcggaaggca gaggtggagg agatcctcat cgcgcgagg aaggccaaac cacatatctg 420
gacctaacgg ac 432

<210> 19320

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C3

<400> 19320

cacgcagaca acagccatct tggaggtatc taattccaat attgtatgtc tcggttgagc 60

ttgtgaaggc gttgcaagca catatcatta actgggatat tcatatgttt gatgaggaga 120
 tcggcaatac cactcagaat gaagatgggc aaaatcttga tgttttcttt ggttgcaccc 180
 gcattctgga ctattcctga cagcatttaa gtttttatta cggttcaacg gtcgtccagc 240
 gtaatccttt tacaaccatg ggtggcaagt ttgaccatgc agatcgtttg ttccaaagca 300
 ttgagaacgc ttacataaat agcttatcaa atacaagtga cgtcaaagag cttattccag 360
 aattctttta catgcccagag tttcttgga attcaaattc atatcatct 409

<210> 19321

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C4

<400> 19321

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 aatgtctatg gtgcaatgag gttaattcaa tctgttattc ctcacatgat ggaaagaagg 120
 aaaggaacaa ttgtgaatgt tggaagtatt accgctctgg cacctggacc atgggctggt 180
 gtgtattcag catccaaagc tgctcttcac gcattgagtg actcgtaag ggttgaacta 240
 agaagcttcg gcataaacgt gatgaccgtc gcccaggag ggacgaggtc gaatcttggg 300
 aattctcttg cagccaagta tgatcagatg cagcagtgga agtactacaa gaaatacag 360
 gaagggctcc gagccaggac tggcatttcc cagggcccca agtccactcc agcagaagag 420
 cttgcaaagg 430

<210> 19322

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C5

<400> 19322

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 cgagtgtgct agttctacca gcgcagttca ccaaactcac cttcggaac ctgtacatcc 120
 gccgggccgg gccgggcagc agggagataa ccgaggaggg caggtgacac ctggacagga 180

gatacgtgag taacttcccc gtctacgacg gccgcggccc cgacgccagc cttgtggccc 240
 gcgtgcaggg gatcaccagc gaaatcggga acgcgcacca actgttcgtc gttgtgttcg 300
 acaccgacag gctcaagggc tccacgctcg tcaccaatgg cgtgataacg ggcgggtctg 360
 acgagtgggc gatctacggc ggtaccgggg tgtttgccat ggcgaagggc ggtataagga 420

<210> 19323

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C7

<400> 19323

caacgccgag ggcgcggagg cgggcgtcgg cgccgccgtc acccggcgca tcatggcggc 60
 gctcaagatc cccggggacg agtacgccat ggtgtgcacg gccaacagga ccgcggcggt 120
 ccgcctcctc gccgagtcct actcgttcca gcccggaag cagctgctcc ccgtgtacga 180
 ctacgagagc gagggcgtgg gcgccatggc cgacagcgcg cgccgccggg gcgccgaggt 240
 cgccctccgag accttcgcct ggccgagcat gaggatccac ggccgcgacc tccgaagag 300
 gctggccagg ggccggcgcc gcggcgccgg gggacgcggc ctcttcgtct taccgctcgc 360
 gtcccgcatg acgggcgccc gggacccgta cctgtggatg agcgcg 406

<210> 19324

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C8

<400> 19324

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 ccctgtgagc taccgtgatg ataccaatga aatgggtcct cttacagaag atgacttgcc 120
 cttgacctt cctgaattgg atgatttcac tccaactggt actggggagc cacctttgac 180
 caaagcaaca aattgggtta gaaccattga cccttcattt gggaagcctg cgagaagaga 240
 aacaagcacc atgccacaat gggctggatc ttgctggtag tatttgaggt tcatggatcc 300
 caaaaactgc agtatattgg ttgataaggc taaagaaagg tattggggtc cagttgacat 360

ctacgtaggt ggtgctgaac attctgtctt gcacttgctt tatgcaagat t 411

<210> 19325

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C9

<400> 19325

accgccccgt cgccgaccgg agtagcccca ggggtctcgcc gcgcagccct ctgcccgaga 60
agaagcgtgc ggcggaaca cgtgttgccg agctggagg caagctgggg aaggtgcaag 120
aggagctcaa gaagctgcgg gagcagctcg cgtccgccga ggccgccaag aaggacgcgc 180
aggtcgcgct cgaggaggcc aagaagcgcg tcggtaccaa gggaagccca gcctccacca 240
ccaccaccac tcctctctcc ccccttcgcc tggggtcgaa atcgccaaga agaccgagga 300
gctgaagctg cctcagccgg cagccgagga ggagagcagc ataaacgccc cggcgaccga 360
tgtgttcgag gtagtcggg ccgagtcggg ggacaaggag aaccagagcg cggccgagga 420
ctgcg 425

<210> 19326

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D1

<400> 19326

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gaagctatta cctcttgga tcttgtaatc ctgcaattta tgtcttgggg atccgaattc 120
atttcatgaa ttacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaataaaaaa acgcaagcaa atatacaaga accagcaata caataaacat gcatgcaaag 240
acaacagaaa atcaataaag tgacctaaat ttaacaaact gacgcctgtg aaaccacggg 300
gggaccgcaa aaacctgcc ttaccctaaa ttcattttt tgca 344

<210> 19327

<211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-D10

 <400> 19327

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 gcgcgggtct tcgtcgcccg gccccttcac cgggtggcgag catccaccag accaccagtg 120
 gatgcgcccc tgcccccat gccccaggtc gagtcggcca ctgcctcgga ggcgcgcgccc 180
 ccgcaggacg catggctcgt cgagctcggc agtcgcctcc cgcagtggga gtcgctgcgg 240
 gattcctcca aggtcattat cccgatttca atatctaggg tgaaccagtt tgatgctgca 300
 aggctagatg ttgagatgtc ggccatgttg aaagagcagc tagtcaaagt gttctctttg 360
 atgaagccag gactcttatt ccaatatgag cctgaacttg atgc 404

<210> 19328
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-D11

 <400> 19328

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 gcatgaggtt taagatgagt tttgaagggg atgacgtccc tataaagaag ttttctggaa 120
 cagttgtcga taaaggagat ctttctccac aatggcaagg ttctgaatgg aagacattga 180
 aggtcaaagt ggacgaagcc aaaaacttaa atggccctga gagggtttcc tcctgggaaa 240
 ttgaaccggt cgatgcatcc gcacctgcca tcaccatgcc cgtgcaacca gcaatgaaaa 300
 aaaaaggcc tagggagaca cctgaaggcc tggatattca tgcactggaa cctgctcaag 360
 aattctggct ctctggaagg cctgaacagc atgagaagac aagcgtaagc tccagcgaac 420
 ccaaacatc 429

<210> 19329
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-D12

<400> 19329

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catttatgta ttgcaatgt cagccttgta catcaagttt atcatggatg aggattatcc 120
aacagtatgg aaggctttca aacactctcc cgcttctttg gggcttctga tatattgttt 180
cattgctctc tggtttgttg gtggactcac tggatttcat atgtacctca ttagcaccaa 240
ccagaccacg tacgagaatt tccgatacag atcagacagc aggcctaaca tctatagcca 300
aggatgtctg aataactttc tacaagtctt ctgcagcaag acaaaacctt ctaaacacaa 360
gttcggggcc tacgcgcaag aggaagtgcg gcctacaacg gttagcttcg gcagggaggt 420
cgat 424

<210> 19330

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D2

<400> 19330

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cgctttcggt cgctcccaga cattctagcc ctctcgagta gctagctcga gcggtgcatg 120
catctgtagc tacctagccg acatgggcaa agatgaggag ggcgcgctg cgctgcttcg 180
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acagagacga ccaaggaacg gaggtggcgg tgatcgcca atccgaggct gaaggagcta 300
gctaactggt ggtgtggtgg tgggtgctgt gtgtgtaggg tctaactcga tcggcgatgt 360
cggcggcagc atacatggga aagccaggca tttttc 396

<210> 19331

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D3

<400> 19331

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aggcgtgtca tgccataca tctgtggcag gcaccttgac catggtgttc tccttgttgg 120
 atatggtgct tctggtttcg ccccatctcg cctgaaggac aagccttact ggatcatcaa 180
 gaactcgtgg ggcgagaact ggggggagaa cggatactac aagatatgca ggggttccaa 240
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 gaaggagtag actctggtca gcggtgataa tcgtgaatcc atatattgga gaactataat 360
 ccctgctagt aatccattt 379

<210> 19332

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D4

<400> 19332

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 tgaaggcata gaaataattg tttcaggagg aatgactatg ccgcaggatga tcatgtcact 120
 ggaaccaaca cctcggaaga gccagaacgt ccgtttggac agagtgagga cagtatgact 180
 gtatgaggca tgcataaaag tgatgggtgt ttcaggatgg cttgttggtt atggattcaa 240
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 ttggcagata catgacaacc tcacactaac ttgcgttgct atcagttggt gacacgaaaa 360
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<210> 19333

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-D5

<400> 19333

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 ctgctcggaa gttggtgaag gtttcttgaa gctgagaaga tgggtgctgaa gacagaactc 120
 tgccgcttca ggggccagaa gatttatcct gagaaaggca tccgatttat ccgagctgat 180
 tctcaggtta tgctttttgc caactcaaaa tgcaagctct acttgcacaa ccgactgagg 240

cctccaaagc ttacctggac agcaatgtgc ttgaagcatc acaagaagga tagccatgct 300
g 301

<210> 19334
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-C12

<400> 19334

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ccaccatgga ccgccgcgtc ggggggctcgt tccagatccc cgcgggctcc ctcaccgtct 120
tcttcgtcgg ctccatcctg ctcaccgtgc ccgtctacga ccgcctcgtg gtgcccgtcg 180
cgcgcgcgtc cagcggcaac ccgcacggtc tcaccccgct gcagcggatc gccgtcggcc 240
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tcgcgcgcga gtccgcctcc ggaggcgctg tgcccatgtc ggtgttcttg ctcacccgcg 360
agttcttcct cgtgggggcg ggcgaggcgt tcacgtacat cggccagctc gacttcttcc 420
tgcgcgga 427

<210> 19335
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-011-Q1-K1-A6

<400> 19335

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tgtcaagtgt ctatgcacan gagattngat gatgnnctga gggcctggac aagaattgag 120
aanctgcag agtccatgac aacaccgaga tatatganng aaggctgtga agatgnctgg 180
aatcctactg gcntggagga nggaagatga nntgccatgc ctcaggncg gacaatccnn 240
ccagaatggc tttcaacttt tgaggaaccc agctccttct ggttccatca ggnntggatt 300
caacttgtgg cttgaagaaa tgccgcattt ggaatggccc gcttgtgccg attatnngcc 360

ttggcttagt gctttctggg cttaggtca

389

<210> 19336
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-011-Q1-K1-A7

<400> 19336

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ttgcaacgag atgatattga gatggtacca gcataacctg tccgagatga agaggatacg 120
tcttcatctt ctggtgaatc agatgtttcg gaggatgaac tcgatgatta cagaaaggct 180
gaagtactag cctatgctaa gaagatgctg aggaagaaac agagagagca gataacttgat 240
gatgcttaca acaagtacat gtttgatgat gaaggggttac ccaactgggtt tggtgaggat 300
taaaaaaggc ataggcagcc catgaagcct gttacacgtg aggaagtagc tacaatgagg 360
gctcagttta tggagatcga tgcccgacca tgcaagangg ttgcagaggc caaggcccgg 420

<210> 19337
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A8

<400> 19337

ctaggcgaga gcacgcactg ctggcggcgc ggctaagacc gagagccgcc gcgcacatta 60
ttgttcgcgc gagggcagcc gccggttgca ttgcatggcg cagctgccgc ccaggatccc 120
gaccgaggtg caccactggc ccgagggggg ccagcacggc gcggcggcgg cggcgtgggc 180
ggacgacttc gccgagttcg cggcggcgcg gcggggcgcg caccgcaggt cgctcagcga 240
ctcggtcgcc ttcgtcgagg tggcgccggc cgacggcggg gccggcgagt tcgacaggct 300
cgacgacgac cagctcctgt ccatgttccc acccgacgag gccggcggca gcggcggcgg 360
cggcgggtcg tccgcggccg ggtccgagaa cggcggcagc agcgacagcg acggcgataa 420
gcgtggcgcg cgcg 434

<210> 19338
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-B1

<400> 19338

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ctctcacaac ctttatattc cttcttgcac ttgtcggagt attctatcct tacaaccgtg   180
gtgcactatt tactgcattg gttgtcattt atgcactcac ttcaggaatt gctggataca   240
ttgctacctc tttctattgt cagttggagg ggacaaactg ggtgaggaac ttgctattga   300
caggatgcct attctgtgga cctctcttcc tgacattttg cttcttgaac accggtgcta   360
ttgcttatag tgccacagca gcaactgccct ttggcactat ctgngtcatt gggctcatct   420
ggaccttggt cacatttcct ttgc                                           444
  
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<210> 19339
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B12

<400> 19339

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atctccatgt cctgtgaagg tgaatcaggg gaacagcgaa gccgttagta aggagtctct   180
atcttgtgga gaaatgctat ggcagctctc tgtagcagca tgtgggtcttc agcagagaga   240
gaaaatcggt cctacaagtg ttaacttctt taccggtttt agaaagaaca aattttctag   300
ttctgatgtc aatgagggga tgcctgagaa ggcagccaac actgagtcca ctctttcaga   360
acagcccatt gctgatcata tgcaggatga ctattgggct gacattctca ttaatgtgga   420
ggagccg                                           427
  
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<210> 19340

<211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B2

 <400> 19340

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 ttcacatgga cctgccaaat ggaacatcag ttgtcaacta ccgtagctca agaggtaatc 180
 atggtgtttt aaggaatcca cgtggccaac catcaaatca atatggtggt ggtcttcttg 240
 caggacctgt gcattctgtt gggcctcaag tacctcgag cggtctgat tctgatagat 300
 ggcagcaaaa ggttctcatg cttcccctg tcacacccat gcaaacaatg cacatagcag 360
 agaggaagta tgttgggtgg aaagtttctg atg 393

<210> 19341
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B3

 <400> 19341

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 tgggcacttc atat 74

<210> 19342
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B4

 <400> 19342

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 ttgtacaaag ataaataaga caattcatca aatctcagaa aacgtcaagc agcttgagaa 120
 gcaaaagagg aaggcaaagg acgacagtca tcttattccc ctagaaccat ggtcagagga 180
 attttcagaa gtcctgacc atgttgoggg cggtagtgcc agtgacagcg gattagctaa 240

gacaaggtac aacaggatct taaataagcc ccggaagtca ttcgagtcca gattgcgcaa 300
atggttctag caaccaaccg gtgctagtgg gttaattgat tttgatcaaa agaggcggtt 360
aaccttttcg ctccggttgt ttgacaaaat gat 393

<210> 19343

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B5

<400> 19343

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gcaggcgagc gatttcattc gacatgaatc ccgagtacga ctaccttttc aaacttctgc 120
ttattggtga ttctggtgtt gggaaatcat gcttgcttct cagatttgca gacgattctt 180
atttgacag ctatatcagc acaattgggg ttgatttcaa aattcgaca gtggagcaag 240
atgggaagac cataaaactt caaatttggg atactgctgg gcaagagcgc ttcaggacaa 300
tcactagcag ctactaccgc ggagctcatg gaatcattat tgtatatgac gtgacagacc 360
aagaaagctt caataatgtg aagcaatggt tgaacgaaat agacc 405

<210> 19344

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B6

<400> 19344

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gctgccttga atggagtgtt gactgtaaga gatgattttg ggcggaatgt cccaaaaaga 180
ctgattgaca tatgggaaga ccgtaaaata tttgataccc aggcacaaag cctgaaagat 240
gattttttca ggaggtaaaa ggacattaga aaccagttgg cagtgagcag ctggagaagg 300
ttgtctctag ctacaaacat gtcctgaatg ctcttatgga tgaggatact ctgatgcgaa 360
aatgccaaag agctcttatc aattttgatg aactcaataa aacatatgga aataact 417

<210> 19345
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-011-Q1-K1-B7

 <400> 19345

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 aataatnann tttcacaatg tggtggggtg ttnnnttatg tacccaatgc cncnnattgt 120
 gtacccatga gtnntcatan ntttttctta ttttgatctn nttgaannca tttcatttag 180
 tnnatgcatg tngnnactgt tgcangnnat tgatttgctn nngctggtag gaacgttttc 240
 ttacgannga aaattggagc cattattagt taatnnagta gg 282

<210> 19346
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-B8

 <400> 19346

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 ctggggagga tgttcctgca actccaaaga aaatattcca gatattgcat cagactattg 180
 aagcactttc ttgtgttcct tccccagagt tagctctgag actatatttg cagtgtgcag 240
 aggctgccaa tgactgtgat ttggaaccaa gtgcttatga gttctttact caagcgttca 300
 ttttatatga agaagaaatc acggattcaa aggctcagat cactgcaatt cacctgataa 360
 ttgggaccct tcagcggatg aatatatttg ggggtgggaaa tagagacacc cttacttac 419

<210> 19347
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-C1

 <400> 19347

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aagtgggagg catcaccaga tgatgatata agacattggg ccaagttccc atcattttacg 120
cctcttctgg gtcagattga gacagatggg ggcaagtctc tggacttttag caactatcct 180
tatatatatta tgagatggaa agagcaatat tttgtcaacg ttggagtcga ctgtgggtta 240
accatcgctg gtttctacta cgtctgcttt tcttgtagcg atggctccat taatggattt 300
tattatgata caaatagcag tccatttcag aagctcgagc tgaagtgtac caatgagaaa 360
aaatccgggt tcaccttttc atcctacgag ctgcaatgac aggacagatg cccttgacag 420
acaacttttt ggt 433

<210> 19348
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-C10
<400> 19348

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cttcttccag ctttaccacc agggtttatt tagggaggag cttgcacgca tctacactgc 120
tgaaattgta tctgcggctg cccacctcca tgccaacggg attatgcata gagatttgaa 180
gcctgagaac atcttactgg atgctgatgg tcatgctatg ctgactgact ttggtgtggc 240
aaaagaattt gatgaaaaca ctagatcaaa ctcaatgtgt ggtactgttg aatacatggc 300
cccagaaatt gttcagggcc gaggtcatga taaggctgca gactggtgga gtgtgggagt 360
ccttcttttt gaaatgctta caggaaagcc accgtttgtt ggtggaaaca gagacaagat 420
tcagc 425

<210> 19349
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-011-Q1-K1-C11
<400> 19349

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agaaatgatg gtcgccaggc tgcttaactt ggaagaggct gagaaggaac gaatatacga 120
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 tgggtgtgaat gctcatagta cttcaagggt tggatgaagg tctaattggt atgaattaga 240
 tgtctctcgg aacagtacga gagctggtaa aggacgttct ggtggatctg cttctgccga 300
 acttgaatca tttccaagca agaagccgaa atacgatcct gttttgccag cttctaaatg 360
 gagtcgagag gatgacatca gtgacgatga agataggaaa ggtggccgag gcttgggatt 420
 aagctatt 428

<210> 19350
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-011-Q1-K1-A5
 <400> 19350

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 caaaggataa tctctatcc atgcaagatg cggtggacga ctacaagagg ctagattacc 180
 tccagcgcca catctcagtt atcaaagaat caatagactt gggggcggac gtgcgcggcc 240
 acttcacatg gtctctgttg gacaacttcg agtggcttag tggctacacc gagcgttacg 300
 gcatcatcta cgtcgaccgt gacgacggct acaggcgcta cctgaagcgc tcagctaagt 360
 ggctgcgaga gttcaacgga gctgccaaaa aggctgaaaa gaaagttctt acgccagctt 420
 a 421

<210> 19351
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-G6
 <400> 19351

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tgacatatag gaggagcaca agagagcagg ccatcatcca gtccacacac tgcggcgacc 180
 acaagccagt cttttcccggt tgctcagacc caaaacgata cagcggcaca tcacatcaca 240
 gggcacagcg agtcagcgaa ccacaccctg aagagagAAC acctctctcg cgctctacaa 300
 taacggtccg 310

<210> 19352
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-G8
 <400> 19352

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 ccaattgtgt ttgccacgtc cgtgcgttcg ggcgggcggg ggagttactt tagggtttcg 180
 gcggggtgcg tgcgcgtgta ggcggtaggg ttttgccatg gcggagaagg gctgcctcaa 240
 gcggtccag aaggagtacc acgccctctg caaggagccg cctccgcaga tcgttgctcg 300
 cccgctgccc aacgacatac tggagtggca ctatgtactg gaaggaagta aaggaacgcc 360
 ctttgaaggt aaagatcata cataatatac cacattatct actgcctcca atatttgttt 420
 tggacttat aaatctc 437

<210> 19353
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-G9
 <400> 19353

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 gcggaaccagc tgggtggcct ggcgccgtgc ctgcagtacg tgcaggggca ggcccgcgcg 180
 ccgtcgaccg actgctgcgg cggcctgcgc caggtgctgg ggaagagccc caagtgcctg 240

tgcgtgctcg tcaaggacaa ggacgacccc aacctgggca tcaagatcaa cgccaccctc 300
 gcgctcgcgc tccccaacgc ctgcgggcgcc acccgcgcca acgtctccca ctgcgctcag 360
 ctctgcata ttccccggg ctccaaagac gccgncgtct tcagccccgg cggcgacaag 420
 g 421

<210> 19354
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-H1
 <400> 19354

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 gatcccatg gcaatgctgc cgcgtccaac agcgtctgtc gcagcgggtg tggtagggcg 120
 ggcgctggtg ctcgggatgg cgtcggcgca ggggcccggc gccgcgcccg cgccggggccc 180
 ggcgccccggg atcagcgacg agtgcttcaa cgcggtgtc aacatgtcgg actgcctgac 240
 gtacgtgacg gcgggcagca aggcgcggca cccggacac 279

<210> 19355
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-H10
 <400> 19355

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 gagattgcag tccacagcca ttgggagcag gccttcaaga tttcctgttc atcccatggg 180
 ttcaatcaat ctgcttccgt ccttctcgta taagtcacac ttataccttt attttagaaa 240
 tatgttcctt aagaaccttg tagctgcaaa tataaatgtc atgaactttt ctttatctct 300
 gttcgtttct tgctgtttct acatttcaga ggatattttc cttgcactgg 350

<210> 19356
 <211> 418
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H11

<400> 19356

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ttggtgtagc tggagcctgg agccggaag gacacacgat gaatcaggag gcgaaggact 120

cgaggccctc aaggtctccc agcgagccaa acctcttcct gcaatggggc agccggaaga 180

ggctgcatg cgtcaaggcg cgtgacgatg gctcgccatc gccgtctgaa ggtcttagac 240

gcgccatacc cctgctact agggccctcc ttggagctga cattgcgga ttccggcgcc 300

ctagcacctt taaccgcagg aaatcagatt cactagttaa cgagtacagg cactcgatgg 360

cgctatcgct ggagaaagac aagtattaca caacgagggg ttcaccgttc gatggaaa 418

<210> 19357

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-H12

<400> 19357

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tatgcctctg gattaactat gcactctatg angagctaga cgcacaagac agagaacgga 120

caagagaggt ttacaaggaa tgcctgaggt tgattcctca caagaaattc acgtttgcaa 180

agatgtggct catggcggcc cagtttgaga tacggcagag aaatctaaag gctgcaagac 240

aaattcttgg aaatgcaatt ggaatggccc caaagggcaa gatattcaag aaatatattg 300

aaattgagct ttatctgggc aactttgacc gttgtaggac tctttatgag aaatatattg 360

aatggtcccc agcaaactgt tatgcctgga ggaagtatgc cgaattggag aagaacctta 420

gtgagactga tc 432

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<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H2

<400> 19358

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tttgggtgaga ttgagaatct gaatgtttgt gataaccttg ctgaccacat gattgggaat 180

gtctatgtcc agttcaggga ggaagagcaa gcagccgcag catacaatgc tcttcagggg 240

cgcttttact ctggccgccc tataattggt gagtattctc ctgtgaccga cttccgtgaa 300

gcaacctgta ggcagtttga ggagaacagc tgcaaccgtg gtggctactg taatttcatg 360

catgtgaagc aaattggcag ggatctcagg aggaagctgt atgggcgttc tg 412

<210> 19359

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H3

<400> 19359

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gggaagcacc accacttctt caaccaccac aagaaggacg aggagcagcc cgccggcgag 120

tacgggtact ccgagaccga ggtggtcacc gtcaccggcg agggcgagta cgagaggtac 180

aagaaggagg agaaggagca caagcacaag cagcacctcg gcgaggccgg cgccatcgcc 240

gccggcgccct tcgcactcta cgagaagcac gaggcgaaga aggaccccga gcacgcgcac 300

aggcacaaga tcacggagga ggtcgctgcc gcggcgcccg tcggcgccgg cggctacgta 360

ttccacgagc accacgagaa gaaga 385

<210> 19360

<211> 347

<212> DNA

<213> Zea mays

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<400> 19360

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gaccgctggg ccaaaatttc caaattccaa tcaaggcaga tggatcgtcc atgatttaat 180
 cggacgatca agtttctggt cgctctgatt acgtcgttac cgctgatcag cttcacagtt 240
 acgatgggtc gattaatcat gattaatgga cgatctgaaa acactgcaag taactttgta 300
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<210> 19361

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H6

<400> 19361

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 tgttccttct tgcgcaaata agtggggcct tcaaaaagat caaggcattg agctgggtctt 180
 ttctgcatat tttgagcctg ataccctgtc tctgtgttgc tgcaacacca ttaccgcggg 240
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<210> 19362

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-H9

<400> 19362

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 gatgcgtcga ttaacgaagt gctgttccag atcataaagt tcgccaacga gaaaaaggac 180
 cacattcctg ctatccctga caggattttc aatcacgaga tcatgacct aagctcggat 240
 tatgtatctg tatggaacac ggacgtcatt cgcagagttc tgaatagcgg gcaccatac 300
 tcgctctaac tgaagacgac a 321

<210> 19363

<211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-A10

 <400> 19363

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 agctctttat gtatctggta gcctgttcaa tctctcatgt cagcccaatg tgcacgcata 180
 ttttctttca cgtgcgttcg tgctgagaac tactgaattt ataaagtccg ggagcccagt 240
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 tcaagagaat tactacttca gttgtcaatg ttcaagttgt tcagagctaa acctatcaga 360
 ccttggtatg aattcattct gttgtccaca aagcaactgc cttggtgccca tatcggaatc 420
 aacttacta 429

<210> 19364
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-011-Q1-K1-A11

 <400> 19364

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 cgcttccctt cgcggcgctg cgcgagccg ccgagtggag gccgtcgtcg acggcggcg 180
 ccgtctccgg cgccgtcgtg ctcaagcga ggtctcgccg gggctcgcgc tcggtggtgc 240
 gatgtgtcgc cacgacgggt gatgtccac ccactgtcgc agaaacaaaa ctgaacttcc 300
 ttaagtcata caaacgccca atcccaagca ttacagtgc agtcttaca gaacttttgg 360
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 gcttcgtcac tgtctatgat cagct 445

<210> 19365
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A12

<400> 19365

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tgctcttaa cacgttcggc ttgggtattg gtgggggctg cggagttagt cttggactag 180
gatggggctt tgaaatgct ttgtgtgtc agtatcgatc ttcaagagtc cagctccagg 240
gcattgaatt tcagaagaag gctggaggag atgaatcaca aaaagttgtt tcacctgagc 300
ttgtgaaaa gtctcatcct tatggctagt atgctgcta ccacaaaatc cacagagact 360
gagttctgtg tgctgagttg cagtttaatt acatatatgt gagttctttg ttagtaatgt 420
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<210> 19366

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-A2

<400> 19366

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cagctgggac ggcgtgcact tcacggaggc cgccaacgcc atcgtcgccg ccaaggtgct 120
caccggcgac tactccacgc ccagggtcac catcgccaaa ctcgtaact ccacgtgcc 180
caacgacgac tagctggctg gccgatcgat cgatcgatcg tcgtcgctgt cattctgatg 240
aacatactgc aggtgcagg cttcatcgat ccatatccaa ttgtccgtag aaatctacga 300
ctagctcatt gtagatctgt aatgtgggct aagagatgca tgacgatcga ctatagctgc 360
ccaacatcgc aagagctggg tcaccggcct cgatcatgatc g 401

<210> 19367

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G5

<400> 19367

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 ggaggagggg aagcaccgca ccaggaccct tgttcgccgc cgccgcctct gatctccgcg 120
 aggttgtcag gattcaatat gtcgaccagc acattcgcta cttcctgcac gctgttgggc 180
 aatgttagaa caacgcaggc ctcccagaca gcggtgaaga gcccttcgtc tctaagcttc 240
 ttcagccaag ttacgaaggt tccaagcctg aagacctcca agaaactgga tgtctccgcc 300
 atggctgtat acaaggtgaa gcttgtcggg cctgaaggtg aagagcacga gtttgatgct 360
 ccagacgacg cctaca 376

<210> 19368
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-F10
 <400> 19368

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 ggtggtgggg gcgggggagg tacgatttgt acttntgat ggtgttggtg agcgtggtgc 120
 ggtggatgcg gggcgagggc gtggatatat ggtggaagg gctgctggta agtgtgtgcg 180
 acaactctgg ggttgtcggc tggctgcgcc cgtgccattc tgtctctggt ggcctttggt 240
 tcagggcagt ctttggtttg gtgggcgcag tcttcgccat ggaagatgca gtagaatcgg 300
 cgcggcgggt gctcacgccc ccgacccta ccacgagttc catttctgta gccctaaggg 360
 ggatattcct tgcgacgagg ggcgtcagca gcggggtgc 399

<210> 19369
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-F11
 <400> 19369

gtgagtacat ggagaagcac gccgtctccc gtttggttgg tgccccacct ggatatgttg 60
 gttatgagga agggggccaa ttgactgaat cagttcgtcg gcgaccttac tcagttgttc 120

tgtttgatga aattgagaaa gcacaccagg aagtctttaa catattgttg caactgttgg 180
atgatggaag aatcactgat tcacaaggca ggactgtcag cttcactaac tgtgtcataa 240
tcatgacatc gaacattggg tcaccattga tccttgacac acttagaaac accacagaca 300
gcaaggaggc cgtgtatgag ataatgaaga agcaggatgat tgagatggcc cggcaaaca 360
tccggccaga attcttgaac aggatagatg agtacattgt gttccaacca ctggat 416

<210> 19370

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F12

<400> 19370

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gtgagtaatg tagaagtcgc tatggtaggt atttccatac cgtcattagt ggatcattga 120
atTTTTTTTgt aagaaggTTa ttgcaatgcc cTTTTTccg gcatgaataa gaaaaaggaa 180
atatgcttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca 240
aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaca taataaaata aaaaaaaaaa 300
gaaaaataaa aaaaataaaa atgaacgaag aattacaacg aaaaaaaaaa aaaaagggcc 360
cgccTTTTaa gaaactcaat ctttcttgcg ggggtttcca aattcaaaag cTTTTTaat 420
ggcccca 428

<210> 19371

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F3

<400> 19371

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agcagctgga ggatggtcgc accttggtg actacaacat ccagaaggag agcacctcc 120
acctggtgct ccgctcagg ggtggtatgc agatTTTTgt gaagacattg actggcaaga 180
ccatcacctt ggaggtggag tcgtctgaca caatcgataa tgtcaaagcc aagatccag 240

acaaggaggg cattccaccg gaccagcagc gcctgatctt tgctggcaag cagctggagg 300
atggccgtac cctcgccgac tacaacatcc agaaggagag caccctccac ctggtgctcc 360
gcttgcgagg tggatatgag atctttgtga agaccttgac tggcaagacc ataaccctg 419

<210> 19372
<211> 383
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-F4
<400> 19372

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cgctcctcct cctcccagcc gcagctggtc gggcgggcgg cggtcctggc agcgggcgctg 120
ctgctgctgg cggcgggggc cgggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180
tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgctgcc ctccgcgggc 240
tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgctcg cggcgggcgg cgggcaggcc 300
acctgcaact gcctcaagag catgacgggc cggctcggcg gggcgctcag catggccaac 360
gccgncaaca tccccggcaa gtg 383

<210> 19373
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-F5
<400> 19373

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cgtttgctgg tggctttctg tcggcggtcg tggcctggct ggagctggcg ggcaccgcgc 120
agggcgggcaa cttctaccag gacacagaga tgacctgggg cgatggccgc ggcaaggtag 180
tggacggcgg gcgcgggctg gacctgacgc tggaccgcac gttcggctcc gggttccagt 240
ccaagagcga gtacctgttc ggcaagatcg acatgcatat caagctggtg ccaggcaact 300
ccgtggcacg gtcaccacct tctacctgtc gtcccagggc gacgcgcacg acgagatcga 360
cttcgagttc ctgggcaacg tgagcgggtga gccctacacg ctgcacacca acgtgttcac 420

gcgc

424

<210> 19374

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F6

<400> 19374

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aaccatttaa cgttccctgt tttttaattg gaactcgctg cgattggcat ctggcagttg 120

gttgggaaaa aaaaaaacia taaaaaaaag aaaaaaaaaa taaa 164

<210> 19375

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F7

<400> 19375

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cagttcacccg cagtgcctagc tggatgatccc caaacatcca acgatgataa gaaggctgaa 120

gctcagccaa agggccatac cggcaaaaca gttttgttcg tctccttagg agtgggggct 180

gtcattctgg tgtcatttgt tattttcaag tattggcaga agaagaaaag gcaggaacag 240

catgcacgtc tgctaaagct atttgaagag gatgacgaca ttgaagttga actaggactt 300

ccagattgaa taatcttaat tgtacagcaa gagtatctcg gctgacaggg ttctgctggc 360

ttgccttcaa agcatattca tgttaatgta aagaat 396

<210> 19376

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F8

<400> 19376

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gtattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120
gaatagagcc atttgtaaca attttttcatt gggacgtccc tcaagcactg gaagacaagt 180
acggtggcctt tttaggcgac aggattgtaa aggattacac agacttcgct aagggtgtgct 240
ttgagaactt cggtgacaag gtgaagaatt ggttgacctt taacgagcca cagacattta 300
caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
gtgctcagcc tattgctaac tctctaccg aaccatacat tgctggccac aaca 414

<210> 19377

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F9

<400> 19377

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gatttgcaag gaggggtgttc tttccctctt tgttcagaat cttccttcat tgggttggga 120
ggtatgctac attcacgaat tgaatgcaat aacctttttt tctctcagtt attagccttt 180
ttggttctat gttgcaggct agaaaggatc ttgtccactg ctggtgtatt ttgttgagac 240
agaaggttga tgaaagctat tgttgtgtcc agtatattga aaatcatttt gatcttttgg 300
atttccttgt tgtttgctat aagaacttgg aagtcgcgtt gaattgtggg aacatgttgc 360
gagaatgcat aaaatatcct acacttgcaa atgctctttc agatatatat tggagtcaag 420
cagcttcgag ttgttttt 438

<210> 19378

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G1

<400> 19378

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aagaggggaa gcaccgcacc aggacccttg ttcgccgccg ccgcctctga tctccgcgag 120
gttgtcagga ttcaatatgt cgaccagcac attcgtact tcctgcacgc tgttgggcaa 180

tgtagaaca acgcaggcct cccagacagc ggtgaagagc ccttcgtctc taagcttctt 240
cagccaagtt acgaagggtc caagcctgaa gacctccaag aaactggatg tctccgccat 300
ggctgtatac aaggtgaagc ttgtcgggcc tgaaagtga gagcacgagt ttgatgctcc 360
agacgacgcc tacatccttg acgcagccga gactggccgt gtgggagtgc catactcgt 419

<210> 19379

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-G11

<400> 19379

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ctcagcctca aaggcctcac ctacgcttac tccgaggaga acctcgacga caagagcgag 120
cttctctca gctccaacc cgtgctcaag aaggtgccc tgctcatcca ccacggcaag 180
cccgctcgc agtcccagat catcgctgag tacgtcgagc aggttttccc cgccgcgcga 240
cctaatttcc ttccatccga cccctacgac cgcgccattg ctgcttctg ggcctcctac 300
gtcgacgaca agttctacag cgcgtggata cccgtgttca ggggcaggac ggcggaggag 360
atggcggagg cggcgaggca ngccgtcgcg gcgctggaga cgctggagca ggcgttcagg 420
gagtgc 427

<210> 19380

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G2

<400> 19380

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ccacctccgt tcccgtcggg aagccccagc agtccgtcgc ctcgccaag cccccacca 120
cggcgggtggc ctccgtggcg acaactgtgc cgatgcgcag tgcagcgacg gtgacgccag 180
ccgtggccac aacaacgagc ctagecgtgt ctctgcacct gccggagctg ccgtcgcaag 240

tgaaggacaa gatcctgagc ctggagctga tgggcgtgga ctatgggcgc gcgctggagc 300
agaacccggc gctccgcgac gcggcgccgg agtccatcca cgcggtggtg tcgttcctcc 360
agtcccgagg gctccagttc aaggacctgg gccgcgtctt cggcatgtgc ccg 413

<210> 19381

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G3

<400> 19381

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catgacgtct cgcgcaatga aggggatgct gactggcca gtcacaatcc tcaactggtc 120
cttcgtccgg aatgaccagc cgaggtttga gacttgctac cagatcgctc ttgcgatcaa 180
gaaggaagtc gaggatcttg aggctggtgg tattcaggtt atccaaatcg acgaggctgc 240
actgagagaa gggctgccgc tccgcaaggc tgagcatgca ttctacttgg actgggctgt 300
ccactccttc agaattacca actgcgagat ccaggacacc acccagatcc acaccacat 360
gtgctactcc aacttcaacg acatcatcca ctcgatcatc gacatgga 408

<210> 19382

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G4

<400> 19382

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atcgaccggg cttgatctgc ctctgccgct ggccgcagct cggctgcca tacaagtgtc 120
actgcggatg gtaagtcaga gcggctcacg ctcaagacca cggacatgga aacggtgtac 180
gagctcgggg gaaagatgat tgacgctctt gggaaggaga aagtgcagag cggggatgtg 240
attgcgcttg acaaggccta cgggaaggtc accaagctcg gacgctccat tgggaggtcg 300
cgggattatg atgctgttgg cccgcacacc aaatttgtca agtgtcctga tggcgagctc 360
cagaagcgca aggagatcgt gcactgtgtt accttacatg agatcgatgt catcaataac 420

aggacac

427

<210> 19383

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-F1

<400> 19383

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cgcggaaccgc accctgtctg gctgtctgca cgcattctca ccgtccgata ccagccgat 180

ggcggcggag accgcggcgg acgaccacga tctccggcca cccctggcgg atggcgccgc 240

tgctgcccgc gtggcgacg cctccttggc ggcgcgggcg ggcgcggcag aggcgctgat 300

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cgtcccgcgc ca 372

<210> 19384

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-D12

<400> 19384

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aggttgagct ggtggtggag gtcaagtccc cggctgacaa gctgtgggag gcgctgcgtg 120

actcgacgga gctgttcccc aagatcttcc ccgagcagta caagagcata gagaccgtcg 180

agggcgacgg caagtcggcc ggcaccgtcc gcctcctcaa gtacaccgag gcggtgccga 240

tgctgacgtt cgccaaggag aagcttgaga cggcgacga cgagaacaag gtggtgtcgt 300

acagcgtggg ggacggcgag ctggcggaact tctacaagaa cttcaagata acgctgaagg 360

tgactccggc caaggcggna ggcgaaggcg gcgccgtcgt cagctgggac atggagttcg 420

aca 423

<210> 19385
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-D2

 <400> 19385

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 tctcaagatc cacgctcata tagagatgaa atgcttacag tttaatagat tgctccatat 120
 taagcaagct atgaacaaag ctgaagctcc tgacaatgat aactgtcctg tgaagattaa 180
 gctacttgct tctacacttt atgtttatac cacacatacc cttgacaatg atcaaggcat 240
 ttcactcctc actactgcac tcaatgcttg tacagcatag attgaaaagt acaaaggaaa 300
 gttagtactg aatgaaccac c 321

<210> 19386
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-D5

 <400> 19386

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 tatctcagat gccgaatggc ttgtgattct tggacctata tccctgactc ttctgcttat 120
 tttcgttagt cgaatgccac ttctcaagtc atctgctgat tagcgctcat aacgatt 177

<210> 19387
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-D6

 <400> 19387

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 aacctgattc cgttcctcgc cctgcacttc tttatggctg gctttgcgcc actcacctcg 120
 cgtggctcgc agcagtaccg tgctctcaact gtccttgagc taaccagca gatgtgggat 180

gccaagaaca tgatgtgtgc tgctgacccg cgtcatggcc gctatctcac agcatctgcc 240
atgttccgtg gaaagatgag caccaaggag gtggacgagc aaatgatcaa tgtccagaac 300
aagaactcgt cctacttcgt ggagtggatc cccaacaatg tgaagtccag tgtttgtgat 360
atcccgccac gcggcctctc catggcctnc accttcattg gcaattccac ctncatccag 420
gagatgttcc gccgtgtgag 440

<210> 19388

<211> 242

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-D7

<400> 19388

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agataagacc gcgggacatc acgatgatgc cttcagcacc ttcttcagcc agactggtgc 120
tggaagcac gttccccgtg caatcttcgt tgatctagaa cccactgtga tcgatgaggt 180
gcgcactggc acgtaccgnc agctcttcca ccctgagcag ctcatcagtg gcaaggagga 240
tg 242

<210> 19389

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E11

<400> 19389

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atgagagacc ttgccaaaga attagtgctt ggaggggaag aatgacctag aactgaagat 120
ggatgagctg atgtgaaaaa tgaggggaag aatgacctag aactgaagat ggaggagctc 180
aggtgaaaaa tgaacttgtt cattgtgtgt tttctgacct ttttttgaa ttgtattaaa 240
atatactgta atgaattggt gtaagaatat gttggaagta gcaaagaacc tgatgccttt 300
tgcaatgaga atgtctttct ggcaatttat cctg 334

<210> 19390
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-E2

 <400> 19390

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 ggatgaagag caggagcagc actctgttgg tgatcctagt tctccaggcc cttctgctct 120
 ctgcggctgt ggccaaagga cctgcagggc cgaagaagca gtgctggtgc ggcgagtgca 180
 ccagctggtc gggcgtgtgg acctgcgacg acctcctcac caagtgcgcc gccacctgca 240
 agaactgcgt ccccgctctcc acggacaagg gcgccaccaa gtacagatgc cgcgacttcc 300
 tccccgaaaa ctgcggctgc aagatccact agagactcat ccaatcaacc atggccacag 360
 ccgatggacc cttcttccat atgcatgctc 390

<210> 19391
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-E4

 <400> 19391

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 gttggatgac tctgatgatg ctaccacttc ggcacttata aaggaggagg tggagaaatg 120
 gcagcgagag ggtgtgcgca tagtataccg gcaccgggtg atccgggatg gctacaaggc 180
 tggaaacctg aaatcagcca tgaactgcag ttacgtgaaa gactatgagt tcgttgctcat 240
 cttcgatgct gattttccaac cacaggcgga cttcctgaag cgcaccgtgc cccatttcaa 300
 gggaaaggat gacgtcgggt tggttcaggc gagatggtcg ttcgtaaaca aggatgagaa 360
 cttgctgacc aggcttcaga acataaatct 390

<210> 19392
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-E5

<400> 19392

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gttcttgcca agattttcta ggtaattat cctgatcaca atcgttttac caaacgtcta 180
tcacaaatac catctttctc atctgtgaaa tgaaggaaat actaagcttc tccatgacca 240
aagtcgctt cctataatct cacgtgagcc tggcacgtag taagcgctat agacatttta 300
agtgtcacac gaagcttgaa aaaaatgaga cgtgtgacat tttagctatg actagtattt 360
ttttctacaa tggaatcggt caagatacac tgctagaaac cgggtttccc gtcgtgccta 420
aaagtctcgg tagcacgtgt ctg 443

<210> 19393

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-010-Q1-K1-E7

<400> 19393

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agtgtacatg tcgtgcacgg tcacacgtgc gtcctctggt tccatcctcc acacgtgcgc 120
tcaaaccgag cttgtccgcg gaccgcaccc tgtctggctg tctgcacgca tctccaccgt 180
ccgatcccca gccgatggcg gcggagaccg cggcggaaga ccacgatctc cggccacccc 240
tggcggatgg cgccgtgct gccggcggtg gcgacgcctc cttggcggcg gcggcgggcg 300
cggcagaggc gctgatgagc gcgacgtcgg agcagctcac gctggtgtat cagggcgacg 360
tctacgtctt cgaccccgtc ccgccccaaa aggttcaggc tgttcttttg gtacttggag 420
ggtagagat tccgntcgtt ttggtaaaca tggct 455

<210> 19394

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E8

<400> 19394

cggacgcgtg ggtgtatgag cttatataag ctttcaattc agcatgaaaa gaagacggat 60

gatatactgg taaaacaatt aggggaaaat gactcacgga ctgaagactc aaaaaattgg 120

ttgaatacat ttaagcttcg agaagagcag gtcaacgccc agaagcagaa gggccaggaa 180

gctaatgcat ccgataacgc tgttaaattc ttgaaggcaa accctgcagt tttacaagca 240

atgaaggctg ctgcgatcca atcaggtggt gtgtcagcaa atgtcaacag gtcgctcaat 300

gctgcagtcg ttggagaagg tgtaccacga ctgagaggag tggatgagcg agctgctcga 360

gcgactgcag aagccccgaa gaaagctgct gcaagaggcc ttaatgtccg taatggccct 420

gtggcaaacc atgcgtctga 440

<210> 19395

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-D11

<400> 19395

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ccaggccgga gaggaggatg gtgggacgag gagcggcgac ggccctcgtg tgggaggcg 120

tggtggcggt cgcgacggtg gtgtcgcggt cgcagcagct gcaggtgggg ttctacgaca 180

cgctgtgccc ggaggcgag atcatcgtgc aggaggaggt gagcaaggcg gcgtccggca 240

accccggtc gcgcggggc ctctgcgcc tccacttcca cgactgcttc gtcagggggt 300

gcgacgcgtc ggtgctgctg gactcgctcg cgggcaacca ggaggagaag gacgcggcgc 360

ccaacgccag cctgcgaggg ttcgaggtca tcgacagcgc caagacgcgg ctggagcagg 420

cctgc 425

<210> 19396

<211> 426

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3062-010-Q1-K1-B7

<400> 19396

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 caaaccaaag aggagatcaa ttatttcattg tgctctctca aggagtgagt gccattcca 180
 gtgttctcat caactacggg ggttacaacc ctcaaaatta tctcagcaa aatgcccgtc 240
 ctgctcatgg acagccaatt ctccatcagc gatataatca ggcaacttcc agtccaatgc 300
 ggccaatggg aagccatcac aatgggcagc ctgctgggcc tagtagtttt ggcatgggcg 360
 atggagtgcc ctggggagga acaagagggc actcatttna cgacaaggaa ggattatggg 420
 agcatc 426

<210> 19397
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-B9
 <400> 19397

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 caggtgagct gcgtgtggga cgcgtacgag gccaccaagg gcgcccacgg gctgtgcatc 180
 ctgaccgagt gggacgagtt caagaccctg gactaccaga agatcttcga caacatgcag 240
 aagccgcct tcgtcttcga cggccgcaac atcgtcgact ccgagaagct gagggagatc 300
 ggcttcatcg tctactccat cggcaagccg ctgcagcctt ggctcaagga catgcccgcg 360
 gtcgcctaatt cccaccccc caccatgg attggattcc gggaaggaag aggagagaag 420
 ct 422

<210> 19398
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-C1
 <400> 19398

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atctaacgat gcataccgcc aataccacat ctttcttaca tctaactg accaccacta 120
cctcaacaac gactaacaac cctacggcta tttctcgagt caaagatcat tctcaatctc 180
taaacaccta cgtcccttac atccctcaaa atcaccctca ccacaaagca cgcgattctc 240
atcgacatcc aattcatcat cagcaatgta ctcaaccaac tcaacatcac acgcaaccaa 300
tcccaatcca tcacaa 316

<210> 19399

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C10

<400> 19399

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ctcgaagcca ttttgtgaaa gggatggagg ttgcactttt gttggtgatc ttctagcgt 120
atgggtttta caatgggtga gcagttggct atattttact ctctataagc agttggatta 180
tggcattgtc ttggcttttt gctccctatt tatttaacct atctggattt gaatggcaga 240
agattgttga ggatttcaga gactggacaa attggctggt ttatcgaggt ggtattggtg 300
ttaaaggaga agaaagctgg gaagcttggg gggaagaaga actgcaacat atttacagca 360
ttcgagggag gatactggaa accatattaa gcctgaggtt tttcattttc caa 413

<210> 19400

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C11

<400> 19400

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gggatttgtc tcgtctgtcc gctccgctcc ccctacattt ctttctgtgt tagtacataa 120
ttctagattt acagaaaaga caaagtttac tcttttctgg atcatatggt ttgtgctact 180
tattgctgct ctggccgcat tgggccagca tgcagttatt cacgggttca acctgacaag 240
cgctggctgc agcagcgagg tgttttagg tttcgcggtg attcgtctac ccaaactctg 300

aaccgtactg atactgaaga ccgtactgat actgaaggca ttatccggcg tgaactgcta 360
attcaaacat tattacacga atgcataagg ctgagcacgg cttttgggct tgaact 416

<210> 19401
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C12

<400> 19401

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agtcggggcg gctcacgctg aagaccacgg acatggaaac ggtgtacgag ctcgggggaa 180
agatgattga ggctcttggg aaggagaagg tgcagagcgg ggatgtgatt gcgcttgaca 240
aggcctccgg gaaggtcacc aagctcggac gctccattgg gaggtcgcgg gattatgatg 300
ctgttggccc gcacaccaag tttgtcaagt gtcctgatgg cgaactccag aagcgcaagg 360
agatcgtgca ctgtgttacc ttacatgaga ttgatgtcat caatagcaag acacaagggt 420
t 421

<210> 19402
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C2

<400> 19402

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ggatgaagcag acttcccggc tggcgctgga ggagatcaag ctcaagttca tcgacacatc 120
gtccaaattt gggcacggtc gcttccagac taccgatgag aagcagaggt tctttggcaa 180
gctcaaggcg taagggtgctg cgggtgcagcg aagtccatt tctcaaaatc atcaaactgt 240
gatacttttg tttgtaacct tgctgtacca agttttgtag ccatgggtccg gtcgtctatg 300
gattgttcca tgcttcagaa ctgcactgtc tatgttttgt gctattttgg ttgtttaatg 360
gccaatcat tgcataaga ttctaattgt catggcgttt gatgatcaat ataactattt 420

atact

425

<210> 19403
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-C3

<400> 19403

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atgtggtgaa atatttgttg acttacagaa gcatagctat gttcagaaaa agcctggagg 120
agcaactgaa caacaggagt tgacatattc tagtcttcag gaagctatct ctgtgccttg 180
gaatagtcta ccgaagaaga cggcaaaatt atactttgct atgagagtac tggaggatta 240
tgaattatct gaagggcgca gccctggcga aacaacactt tctgacatag atgcagttct 300
ggctcgaagg aaggatatgt gtgataaaat gtctttgaat gagtctcgta ttctactac 360
tctcgtggaa cgactgctag cagctggaaa gaaggagcat cctnctgtat gtgctatcct 420
tgggtggtatt cttggtcagg ag 442

<210> 19404
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-C5

<400> 19404

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ttgaaatatt tgttgactta cagaagcata gctatgttca gaaaaagcct ggaggagcaa 120
ctgaacaaca ggagttgaca tattctagtc ttcaggaagc tatctctgtg ccttggaata 180
gtctaccgaa gaagacggca aaattatact ttgctatgag agtactggag gattatgaat 240
tatctgaagg gcgcagacct ggctaaacaa cactttctga catagatgca gttctggctc 300
taaggaagga tatgtgtgat aaaatgtctt tgaatgagtc tcgtattcct actactctcg 360
tggaacgact gctatcagct tgaaagacag agcattcttc tgtatgtgct atccttggtg 420

gta

423

<210> 19405
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-C6

<400> 19405

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tgtggattag gtggggaatg cacactttca cttgtttctc ttaaaaatgt caaaccagga 120
caacatgata cacatctgca ttctgctgct gttcgcaccc agaacaagtt tcgcggatgg 180
aagggaagaa aggaatttat gatcattcgc cagagaattg tcaagctaca ggctcatgta 240
cgaggacatc aagtgaggaa gaactatcgg aaggtagtct ggtcagtcgg tatcgtcgag 300
aaagtcatac tgagatggag gagaaagagg cctgngttac gggggtttcg gccccagaaa 360
caactagaag gtccatcgca natccaacct gcaaaggctg aagacgaata cgatttcttg 420
cacgacggca g 431

<210> 19406
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-C7

<400> 19406

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ctcaggcccc atgggaagac ccagggtgaca gtggagtacc gcaacgaggg tggcgccatg 120
gttccccatc gtgtgcacac agtcctcatc tctaccagc acgacgagac agtcaccaac 180
gacgagattg ctgctgacct gaaggagcac gtcacaaagc cagtcacccc cgagcagtac 240
ctcgacgaga agacaatttt ccacctcaac ccgtctggcc gcttcgtcat cggcggacct 300
cacggcgacg ccggcctcac tggccggaag atcatcatcg acacctacgg tggctgggga 360
gcccacggcg gtggcgccct ctccggcaag gacccgacca aggtggac 408

<210> 19407
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-C8

 <400> 19407

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 tgtcaccccc gaggttaagg attctctggt taagaacata aggaggagga tgacaccaca 120
 gcctctcaag atccgtgctg atatagagat gaaatgcttc cagtttgatg gagtgctcca 180
 tattaagcaa gctatgaaga aagctgaagc tgcgggcaat gataactgtc ctgtgaagat 240
 taagctagtt gtcctccac tttatgtttt gaccacacag acccttgaca aggatcaagg 300
 catttcagtt ctactactg cagtcaaggc ttgtacagca gagattgaaa agtaciaaagg 360
 aaagttagta gtgaaggaac caccaagagc tgttagttag cggaagaca agctattcct 420
 cgaccagatt gattccctaa tgg 443

<210> 19408
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-C9

 <400> 19408

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 accatggcta cccgtatcca gtttgagaac aactgtgaaa ttggtgtttt ctccaagctg 180
 acaaatgctt actgtctggt agcgattgga gggtcagaga acttctacag tgcctttgag 240
 gctgagcttg cagatgccat ccctgtggtc aagacctcta ttggtggcac tagaataata 300
 ggccgacttt gtgttggaac caagaatgga cttctattgc cacatactac aaccgaccaa 360
 gagcttcagc atctgaggaa ttgcttgctt gatcaagtgg tggttcaccg cattgatgag 420
 agggatatctg cctttggca 439

<210> 19409

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-D1

 <400> 19409

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 aaaggatggg agtgcgcacg cacattccga agtggaggca ttaatgtaga tcatatcgct 180
 ttcgatccaa aggagaccaa ccgctttgtt gctaccgatt gcttggatgg caaagtgatg 240
 atttgagacc tcgactctcc cgaacctgaa tatcatctgc ctaagacgga ttttaagggg 300
 atcatgttcc tggaattctt cacacgttat ggtcggcagt gtttgattat tgctcatgaa 360
 gatcataaag cacacgtatg ggacttttcg ttgcgcaaat ttgtttctga gaagcgaaaa 420
 ttattatctc 430

<210> 19410
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-D10

 <400> 19410

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 agcattggcg ggatactcga gcaggcggcg agcttttcgc aaactgaccc attgaggcag 180
 tatcacccga tcagctttgt cgccaagggg gtggccagga acttcctcct tgagccattg 240
 tacagtttga gggacgaatt ctacacgggt tacttcaacg tcagggctctg agtcctgacg 300
 cttacacttg cagtagaagt aatacagaat aaataatgtg cgcgacctt ttcttctcat 360
 aactgtagc ttagaacagc caatgaagaa gcaattgggt tgggtgaact tgttatgca 419

<210> 19411
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B6

<400> 19411

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cggcgtctcc gagcaacagc tcctccgacg aaggttccgg ctccgggttc gggtcggacg 120
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tctgcaggcc gccggcccat gtgtattaag taggttttgc tcagttgttg gccctggact 420
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<210> 19412

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A12

<400> 19412

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tccttccaag acagtacatt atatctacaa agttacatct atatcactga atccaaacat 180
tcctatgcaa atttttaatc taataatgat taaccctcct aaacctttag atatctctta 240
ccttaac 247

<210> 19413

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A3

<400> 19413

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ctcggtcgag ctgtccggag gaccaaagtg ggcagtgtct cttgggaggc tagacagcaa 120

gaaggccgac ttcaagagcg cggagaacct gccgtcgccg ttcgacaacc tgacggtgct 180
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tcacacgttc gggcgggtcc agtgccagtt cgtcacgggg cggctgtaca acttcagcgg 300
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ccccagAAC ggcagcccct cggccctcaa cgacctggac cccacgacgc cgaacctgtt 420
cgacaaccac tactaca 437

<210> 19414
<211> 340
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-A5

<400> 19414
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aacattacca tacccttcga caacctgact gtactgcata ataactacgc ggccgtgggc 180
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aactacggct accgggcggt cctggcccat atgtgcccc 340

<210> 19415
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-A6

<400> 19415
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gatgatgagc gactacaagg tggatatggt gaacgatggg atgcaggagt tctttgttga 180
atttcgtggg cctaacgaaa gcatttatca aggaggtata tggagggtta gagtagaact 240
gccagatgcg tatcettaca aatccccatc gattggtttc atcaataaga tatatcacc 300

aaatgtcgat gaaatgtctg gttcagtctg tttggatgtc atcaaccaga catggagccc 360
aatgtttgat cttgtcaatg tgttcgaggt cttccttcca caacttc 407

<210> 19416
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A8

<400> 19416

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cgccccacct agatccggcc acgccgcacg ttccccctttt ccgccgcagc gatggtgtac 180
gtggattcct gggacgagtt cgtggagcgg tccgtgcagc tcttccgcgc cgaccccaac 240
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gatgaccgcg agtgcttgaa attcaagaca gatcaagctc aggacgcaaa gaagatggag 360
aagctcaaca acatcttttt tgctctgatg actcgtgggc ctgatgctga tatcagtg 418

<210> 19417
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-A9

<400> 19417

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tctcggcccc gcgcctgagc cggtttcatg tctcctgcga cagccacggg ggccggcgga 180
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cggggagcga gaagcttacc caggtgggca ggggcaacgc agcgtggcg ttgttgagga 360
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tc 422

<210> 19418
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-010-Q1-K1-B1

 <400> 19418

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 cagaaggaga gcaccctaca cctgggtgctc cgtctcaggg gtggcatgca tatctttgtg 180
 aagacactta ctggctagac aatcactctt gaagtggaga cctcggatac catttacaaa 240
 gtcaaggcta atatccag 258

<210> 19419
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-B10

 <400> 19419

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 cggaggagga gtacgactac ctattcaagg tgggtgctgat cggggacagc ggcgtgggga 180
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 tctgggacac cgnccgggcaa gagaggtacg cccttctttg ctggtgtacg ctatgcaggt 360
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<210> 19420
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-010-Q1-K1-B11

<400> 19420

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cggcgctgct gctgctggcg gcggggggccg ggacggcgctc ggccggcggcg agctgcggcg 180
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ggcaggccac ctgcaactgc ctcaagagca tgacgggccg gctcggcggc ggcgtcagca 360
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<210> 19421
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B12

<400> 19421

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aaaatatcca ccaagtgcgt ttattgcaca atagacattt acagtggctc ttataaatg 120
cttatgcaga agatgcttta tcttttcaaa aggctactgt tgagaatacc atgtataatg 180
tttgaggagaa tactgtaaac ctgcgggatt ctggtaatat gaaaagaata atgggtgcaac 240
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aatggccaac gctagaaagg gagaatagta tctctttact aggggcaact gaggctctga 360
aagcaagcac cctgcgcctg ccagttacat tgggagcaaa ggctaacaca at 412

<210> 19422
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B2

<400> 19422

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cataaccaat taccaatgac actagctgat actagtagta ttacgcatgc atgcagtagc 120
tatgtgtgtc gtcgtagtcg tagtatagct gccagtgtcc ggacgcggac ggatcaatgg 180
cagattagca gctagccagc tgggattgag atggatggat ggatggatgg aggtcgaggc 240
acgccacgcg cagggcctag ttctgttga ccatggcgag gatgggtgcag atgctctcgg 300
agctcaacac cgacatcgac gcctacgtct tcatcgactc caactacaac ctaatcagct 360
t 361

<210> 19423
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-B3
<400> 19423

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tggcggcgtc ggacgttgag taccgttgc tctgtggcgg cctcgcttgg gccaccgacg 120
accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180
tggatcgagg gacgcagagg tcccgcgggt tctggcttct caccttctcc acggaggacg 240
cgatgcgcag cgccatcgag ggcattgaac gcaaggagct cgacggccgc aacatcaccg 300
ttaacgaggg ccagtccgc ggcggccgtg gaggcggcgg tggcggatac ggtggcgggg 360
gccgtgatgg aggcggctac ggcggtggcg gtggaggcta ccgcggtggt cgtggagggt 420
acggcggcgg tggg 434

<210> 19424
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-B4
<400> 19424

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ttgctattcg aagagtcaaa gtttaaggca tttgatctgg catcaaaacc agaagggtgaa 120
gggacgcaa ctacagactt tgactcttcg aatatcaatc acccgctaaa caagtttaga 180

aatgcaaata tactggtgtg gaagcgcaag gcagaacagt acctagcaga ctccggtctt 240
ccatatacaa ttataagagc tggcggttta caagataaag atggtggctt gcgagagttg 300
attgttggga aggatgatga gatcctgaaa acagaaacaa gaactatagc cagggccgat 360
gttgcagaag tttgcataca ggcattgcta ttcgaagagt caaagtttaa ggcatttgat 420
ctggcatcaa 430

<210> 19425

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-B5

<400> 19425

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acgctttgcc tcttcttcgt tctctgccgc tgcgctagct agctgcggct ccgagcctcc 120
gacgcaggaa gtctaattgtg gaagtctctc agaactgagt acttttggtta gaacaaagat 180
tcgttcaatc aagctttgca aattatcatc atagtttgga tgatatccat gggactttta 240
atgagtttat ggagccctgg ttgccgagct tatctgggat ctctgacact ggaactgtaa 300
tatttgcaaa agaacctttc ttgtattgga agaaagtttc aagagcgggt gacaactcat 360
aagtgtaagc ttgatgacgt gttcatgagg gcaaagcggg agagcaaaat ttcttcgcat 420
gcagatgtca acaggctcta acc 443

<210> 19426

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A11

<400> 19426

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cgcgatggcg atgtccgctt ccaagaggat ggcggtcgcc gccgctgcgc tgctagccct 120
ggtcctggcc gcgtcgaccg cggaggcgag gaacatcaag acgacgacga ctacgacgga 180
gaagaatgac gatgcggtgg tgcagccgca gaccttcccg cccttcgacc gcctcggcgg 240

cggcgcgctcc ccggcggtccg gtggcctccc cggcacctcg tcgggcggca gcagcattcc 300
 agcgttcagc atgccgggca gcggcagcag cctccccggc gggtcgttct tgcccggcag 360
 cagcggcagc atcggcagca tgcccctctt cagcggcggc tccccggcct tcagcggctt 420
 cggcggcgatg cccggatccc ccg 443

<210> 19427
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-G6
 <400> 19427

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 cgcgcccgt gccggtccgt caccgtttgc agcccgaacc gagaagccgg agagcccagc 180
 ccttgcgccg gagcgccagc agcgctcgca ctcgatccag gtggccgagc aacgctcgca 240
 gtgcgcgccat ggggggagcg atccaaccgt ggtcgactag ccgtgccgtc gcgcacacgt 300
 ctgtgctagc cgagccaccg aaccgcgaac gaggctgagg cctgccgtgc accacggccg 360
 accgagccga ggctgatgac ggacgagcac gggccggtag gcggacgtag agcccgttg 420
 ccc 423

<210> 19428
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-G7
 <400> 19428

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 tcaacagcat tgccccgag gagcctaaag tggtcgtgcc agagtacggt gagacggctg 120
 atatccagga caaggaagtt agtatggaac agctctgctc cataagcacc tatgatcagt 180
 ggacgccact ctctgtttct ggccagcttc ccaaaccacg ctataagcat ggagctgtgg 240
 tgattcagca gaagatgtat gtctttggtg gaaaccacaa tggccgttac cttggcgaca 300

ttcagggtttt ggacttcaaa actttgtcat ggtcaaagct ggaagctaaa tcacaagcag 360
aaccatcaga atcagctgga gcagttccgt tttctgcatg tgctggccat tcagtgatc 420
aatggggaa 429

<210> 19429
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-G8
<400> 19429

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agccgagagg gccaatgagg caaggcatga gctccccttc cgccgccgcg gcgctcgtgc 120
tcctcctggc cctgctcgcc ggaggccagt gccgagaggc ccagctcgac gccgcggacg 180
ccggcaccgg cacggagaac tacaccgcca gcgacgccgc cgtgtactgg ggccccctggc 240
agagggcccg ggccacctgg tacggccagc ccaacggcgc cggccccgac gacaacggtg 300
gcgcgtgcgg attcaagcac accaaccagt accccttcat gtccatgggc tcctgcggca 360
accagccatt gttcaaggac ggcaagggtc gcggctcctg ctacaagatt cgggtgc 416

<210> 19430
<211> 426
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-G9
<400> 19430

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aaggatcatt aaggagaccc tacgagtgaag agattaagga ttgcaacatt tggcttaagg 120
tattcgggtcc cgaaattctt ccattaaagg aattaccggc caacctacca aaacctgtta 180
aggttgaaaa acttgttgc tttgcactta atccaatgga tgaacagagg cagcttttgt 240
gtttggagaa tgagcgacta aaacaagcct tgggaagaca aatagaacaa tcaatgggta 300
aagcttaaac atccaaaag gagggatatca gcctgagcaa agagaaggag ccattgatga 360

aggaaagaga tgcttgattt caggaggctc atatgntgcg cattgaacta gtaaaagcca 420
gggagc 426

<210> 19431
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H1

<400> 19431

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ccgatgccga cctcaacttg gtctgctccg actgcggcaa gccatgccgc tcccagaccg 120
aggtggacct gcacaccaag cgcacggggc atacggagtt cgcggacaag accgcggagg 180
cagccaaacc catcgatctc gaggcgccgc ttaagccggc ctccgaggat gtcatggacg 240
tagacacgtc ggcttcggcg agtggggagc cacaagagat ggttgtcccg gaggtgaaca 300
aggagatgct cacggacctt gagggcatgg gtttctcgac agcgcgcgcc accagggcgc 360
ttcacttctc cggtaatagc accattgaag gtgctattaa ctggctttct gagcaccaag 420
aggacatag 429

<210> 19432
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H10

<400> 19432

gaaactcaga gagtacaaac ccattacttg cacgtacatg atgtaccaag ctggggcaat 60
tctagactac tcggacaatt cagactatac tacgacgaca catagctcac cctctctctc 120
ccggtctect ccggtccca gcccgtcgcc gaccgcaagc gcgcccactc tgaccacaac 180
aagcgcgtcat gcccaaatgc gcgctccgta cactgtccga ctgtacaaac gtaccggcgc 240
aacgcgctac acgaccaagg caccaatctc gtaaaagtaa ccaatgacca atcaccgtag 300
cttcctaaag atgacctcat aacacacgac ggggtactcac accttcttct ctcgctccac 360
agcat 365

<210> 19433
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-H11

 <400> 19433

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 tggcaccaag catgagggcan gaactgcatt acttgcaaga aagtcacaaa atccattgca 120
 agatcatact tgtggctttc ttgcaagttg tgcagttgtt gcctcaagct tgctgcctcc 180
 ctttgccaga gctatcggta aaacaggaag tactgtcagt ttccgagcta caaacaagct 240
 ataagtttag aaaaataatt tagaaatgta caacaaagtc tagtaatata ttgctaaaga 300
 taaatcaata ctcaataagt tcctcatgct ttggatttgg ggataacata cctggtttat 360
 ttacatgcta atatttggac caacaaaaaa taccttagga acagccattt gagaaaaaaa 420
 caaagccttt tagtcctaag caag 444

<210> 19434
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-H4

 <400> 19434

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 ggcaaccacc attggcaacg ggcctttctt taaccgcctt gcaatgggccc ggcctcttgt 120
 ccgtgtgggc cgtcgtaacc taccgggctc gcgcccagca gcagcccagc cacaacgcct 180
 ccgagtcgtc gcaggacagg tccttgttgt cctacagcag tggctggctg cccgccaagg 240
 ccacctggta cggcgcgccc accggcgccg gccccgacga caacgggtggg gcgtgcgggt 300
 tcaagggcac caaccagtac ccgttctcgt ccatgacgtc ctgtggcaa 349

<210> 19435
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H5

<400> 19435

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cttatgccaa acgttgctaa ccttcaaaat gttggtgacc gtctgtctga cgaagaacta 120
tatgaagctg caaaaatctt ctatgcttac atctcacact gggctaagct agctgttacc 180
ataggtaagc tgtatcaagt tcacgggtgct gcgaatactg tctacatggc tatacagtgc 240
caaaacatgt aacgtgggtct gctgtgcttg tgttgacgcc gaggagtcc atcttgacaca 300
gatttgctac ctcaatgtta ttattcatgt tgattacttg aaagaagtca gttagtacta 360
ccataataga ggacgcttca attaactcat tgctctcatg gatagtggtc ttgcacttg 419

<210> 19436

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H6

<400> 19436

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cacggccaac aaccagggtca acgtctcttc gggcgctcgcc gaggtcacca tcaacagcgc 120
gctcagcgcc gtcaagcccc tcgccgtcta ctccgctcgac aagggtgctcc tgccgctgga 180
gctgttcggg gccaaaggcg cgcgcgcgcg gcccgccgcg tcccagggga agcccaagaa 240
gggcggggtcc tcggacgctc cctccgggtc ggccgggtcc gacgacgccg cgcccacggg 300
cgccgcccgc gccagggccg tcggctggag cttecgctggc ctgcgcgcg tccttggtg 360
cctgttggtga gaggtagacc gtgcgtcatt tctagggacg gaggacggac ggacgacaag 420
ctagttgaag at 432

<210> 19437

<211> 213

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-009-Q1-K1-H7

<400> 19437

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tacgcggacc cggatacggga agcgggaagat caggatgaga ggtgggagag gctgctgccg 120

gagctgctct gcgacgtggt gcggcgcgctc taggcgtccg gcggcgagcg gtggccggcg 180

cggaaagacg tagactcctg cgctgcctg tgc 213

<210> 19438

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-H8

<400> 19438

attaaagcgt aatgcacgga ggagctctgc agtgccattt gaaccttctc aaacaaacga 60

ctgccattga aattgagaag acaagacgga atccaaggaa attaagtagc actcctgctg 120

agtcagttcc tgatggccag ttaacagAAC ttgagaaggt taaacgtagc cttaggaagg 180

ttactaattc tgtggctgaa acctcgaagg cacctagtcc aaaaactgag attcctaacc 240

atcaagaggt ccaatgtgag agaccactaa gaagagcaaa acaggttcca attcatcttg 300

agaatcaaga gcctgataat gttaatctgt tggacaatgc aaagatggat attctgggtac 360

ctgatatcca gcctgatgtg gaagttgctt cagatccagt caccatcact aatgaagaaa 420

atgttgatga ac 432

<210> 19439

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-009-Q1-K1-H9

<400> 19439

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ggggcacttc gcgggtttcc cgggcgtggt ccggcttgac ttccaccacc ccgggcttaa 120

ccttgggctt cccggcttct tccgccgcca agcccgccgc cgacggaagg cgcgccacg 180

ccgaccacga caagccgnca tccccaaagg cgcggggcgt gggctggccg ccggtccgcg 240

cgtaccggcg caacgcgctg cgcgacgagg gcgccaggct cgtgaagggtg gccgtggacg 300
gcgcgccgta cctgcggaag gtggacctcg cggcgcacga cgggtacgcc gncctgctcc 360
gcgcgcttca cggcatgttc gccttctgcc tcggagccga cggnnngcggg cggatcggca 420

<210> 19440
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-A1
<400> 19440

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agccatgggg aggtggccgt gctgcgagaa ggcgcacacg aacaagggcg cctggaccaa 120
ggaggaggac cagcgcctga tcgcctacat cagggcgcac ggagagggga gctggcgctc 180
gctgcccagg gccgcgggac tcctccgctg cggcaagagc tgcaggctcc gctggatgaa 240
ctacctccgc ccggacctca agcgcggcaa cttcacccggc tacgacgacg agctcatcat 300
caagctccac gccctgctcg gaaacaagtg gtcgctcatc gcgtgacagc tgcccggccg 360
gacagacaac gagatcaaga actactggaa cacgcacatt aagcgcaag 409

<210> 19441
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-010-Q1-K1-A10
<400> 19441

aaaaagaatg gagcgagctc ttcaccaaag caggggttcag cgaatacaag atcctgaagg 60
aatTTggagc tcgtgttgcc ttCGaagtct atccgtgaga tatatatata tatttacata 120
catatatgta tgttgtgtggg tgccttgctg ggcttggcgt gatgatgtca taaataaaga 180
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ctttcttaag gctctcgtgg atcttctata tttggaagaa gctgtaaaat aatatatcgc 300
catctagtgt tggcgttggc ttgtatgtac tttgtacctg ctttattatt ttgtgcaata 360
tcgagtaacc taatgt 376

<210> 19442
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-G5

 <400> 19442

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 cgagtaccag accgaggagt gcatgtacaa cgccgtgcmc cgcttccgca aggtgcgcta 120
 cgacacgctg cgcctgccga acaaggctcgt ggcgcggtag gccgactgct ccgtcaagtt 180
 cggccagagc tagggctcct cctacctctt ataccggac atctacacat acaggaggat 240
 ctccgtgcaa ggcatacat aaccgtgctc ggctgcgccc gacgacacta tggccacgca 300
 tacagtctga ccttaacagg aagcttgccg ccatggtaaa tgac 344

<210> 19443
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-F10

 <400> 19443

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 agcaaggggt cccatttgaa tattagcggc gctggtagtt acattgccg tgtcttctgc 120
 gctattgttt ctcaccggc tgacaacctt gtgtctttcc tgaacaatgc caaggagct 180
 acaatgggag atgctgttaa gaagcttggt ctctggggtc tcttcactag aggacttcct 240
 cttcgtatcg tcatgattgg tacccttact ggtgctcagt ggggaattta cgatgcattc 300
 aaagtgatgg ttggactccc aacaacggga ggtgttacac ctgccccagc agcagaggct 360
 gaattgaaag ccagtgcttg attttttctt ctgtgttccc tgagatcata tttggtggag 420
 tggaattgta tc 432

<210> 19444
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-F11

<400> 19444

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gactttctcaa aagactactc acctaagctc aacgccgacg acgcctatgc cactgcagaa 120
atcttttgga ctagacggaa ttctattggg cctcctatgg gaaatccatg gatctacatg 180
taccctaaag gcctaaagga tctccttatg atcatgaaga acaaatacgg aaacccgcct 240
atctatatca ccgagaacgg aatcggggac gttgacacaa aggataatcc tctatccatg 300
caagatgcgt tggaccaact acaagaggct agattacctn cagcgccaca tctcagttat 360
caaagaatca atagacttgg gggcggacgt gcgcggncac ttcacatggg ctctgttgga 420
c 421

<210> 19445
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-F12

<400> 19445

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gctttctaaa actagagcgg ctcaccaata cgccgctgta tgcttagtac cgctgcttcg 120
tcggcggcct cgctgggac tctgtggac ctcttcactg aaaatccctt gatcaacttt 180
ctccttaa 188

<210> 19446
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-F2

<400> 19446

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ggctggaggc ggcgggatct cttggtctgc agtcctgctt cacctcgatg gatgatgtct 120
 ctgcgctgat aattattgga tcaatttcga taattattag tagatctatg agatatgccg 180
 cctggaagag gcgaggtaag ctgcagcatg taaaagtctg cgtgcgtcga cagcaaaaaa 240
 gagaaaaaaa gatgtgacat cctagaggag gcctttgcc a tgatgggtgc gctcgcatgg 300
 caggccaggt attaataaaa agatgattat tgtgtgccgg gggaggagat cgcacggngg 360
 ttgatgtttt tggccccggg gtcttctccc tcatcttggt cegtgttcct gtatccgttg 420
 tttccgcgcc 430

<210> 19447

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F3

<400> 19447

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 gattatttca tttgttatac atggcttcgg aacaattatc tcatagggac aaatttcaac 120
 attacaatgg acatattcct gagcatgacc agagccaaat ttggcttact gattcatgcc 180
 actcttactg caaaggcggg ttaaacatac agccatttca aatactactc tggcattacc 240
 tattgctact gctcttcaga tttaggcttc ttacctccag atttaagcaa atctgggtctg 300
 ctgatcctt caacatattg tgactat 327

<210> 19448

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F4

<400> 19448

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 ggggtgtgtg gaggggcgat ggcggcggct gatgtggagt accgttgctt cgtcggcggg 120
 cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct tcgcctccta cggcgagatc 180
 ctgactcca aggtcatcac cgaccgggag acggggaggt ctcgcggctt cggcttcggt 240

accttctcct ccgagaactc catgctcgac gctatcgaga acatgaacgg caaggagctc 300
gacggccgta acatcacctg taaccaggcc cagtcccggtg gcggtggcgg tggcggcggt 360
ggctacggcg gcggtcgcgg cggcggcggc tatggtggcg ggcgccgtga cggcggttat 420
ggcggcggtg g 431

<210> 19449
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-F5
<400> 19449

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cccaatagct catgggagaa atttcagcat gacaatggac agggtcggga gcatggcctg 120
agccactttt ggcttactga ttcatgcccc cttactgtca aggcggtgaa gggcagacgg 180
ccatttgaaa ttctaagtct ggccggacct attgcttctg ctctccagat ttaggcttct 240
tacctccaga tttaggcaaa tctgggtctgc tcgacccctc gggatatctg tgactattca 300
gatagttctt gtctcctgag ctgctgttg 329

<210> 19450
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-F7
<400> 19450

tgcacccacg cgtacgccta gctctagaaa tcatgcatct gccgatctga agattgtgtt 60
ccttcccctg ttggcctttg aagcaataat ccttattgac aatttttagaa tgtgtagagc 120
tttaatgcct ggggatgaag aaagcatgag tgatgaagct atttgggaga cacttctca 180
tttttgggtt tcaatttcaa tgggtgttct tatagctgct acaacattca ccttctcaa 240
gctgtctggt gatgttggtg ctttgggatg gtgggatttg tttataaatt atgggattgc 300
agaatgcttt gcatttcttg actgtacaag atggtttaat cccatgattc acaagtctgc 360
cactcatggg gaggctagct catcatcagc gattagatac cgcgattggg aaagtgtct 420

tgtactccca tcactacgac gatcatga

448

<210> 19451

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F8

<400> 19451

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cctcaagaca atggaagatg gacaggttat gctttattcg agttcagtta atggtaaaga 120

aaccaagatt ccattcccct ggctagtttt caatgagaag gtgaaagtga attctgtttt 180

cctccgggat tcaactgcta tatctgattc tatactgttg ttattcggag gctgcataaa 240

acaagggggc ttggatggac acttaaaaat gcttggaggt tatcttgagt tcttcatgaa 300

tcgcgatctt gcttcaactt atgtgagttt gaagagagaa cttgagaatt taatccattg 360

caagctccaa aaccaagga tggatatcca aacgagtga gagctgctat cagccatccg 420

tttg 424

<210> 19452

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F9

<400> 19452

tcgatcggtg agcttatcta ccagcatgct gtgcctggtc cgaagtctga gtgcagcaag 60

agtgccagtg tgggtattag ctttgctggg ggggtacattg cccgtgtctt ctgggctatt 120

ggttcttaac cggctgacaa ccttgggtct ttccttgaca atggccaagg aacctccatg 180

ggaaaatgct gttaagaagc ttggtctctg ggggtctctt actagaggac ttctctctcg 240

tatcgtcatg attggtaccc ttactgggtgc tcagtgggga atttacgatg cattcaaagt 300

gatggttga ctcccaacaa cgggaggtgt tacacctgcc ccagcagcag aggctgaatt 360

gaaagccagt gctggatttt tttt 384

<210> 19453

<211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-G1

 <400> 19453

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 ccgaggccgt cctcaacttc gtctgctccg actgcggcaa gccatgccgc tcccagaccg 120
 aggtggacct gcacaccaag cgcacggggc atacggagtt cgcggacaag accgcggagg 180
 cagccaaacc catcgatctc gaggcgccgc ttaagccggc ctccgaggat gtcattggacg 240
 tagacacgtc ggcttcggcg agtggggagc cacaagagat ggttgctccg gaggtgaaca 300
 aggagatgct cacggacctt gagggcatgg gtttctcgac agcgcgcgcc accagggcg 360
 ttcacttctc cggtaatagc accattgaag gtgctattaa ctggctntct gagca 415

<210> 19454
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-G10

 <400> 19454

 gagagaccaa gaggacacgg gagagaggac gttcatttcc gcgtcgtctg cgcccgcagg 60
 cggcagcccc accaccacc acatggccga catgccgggt ggagcccacg gcgccggcg 120
 cgcggacccg atgcatgtgg accagccgct cccccctgcc gtcgcaggca cagcacacgc 180
 tcccgcgcac gccaaagcatg ctggttctat gattgaaggg agtgatccg tccagggcca 240
 tataatctcg acaaccattg gaggggaagaa tggagagcct aaaaggacta tcagctacat 300
 ggcagagaga gttgtgggaa ctggatcatt tggaatcgtc ttccaggcaa aatgtctgga 360
 gactggtgag actgttgcca ttaagaagg tttgcaggac aagcgctaca agaacaggga 420
 gctacaaa 428

<210> 19455
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G11

<400> 19455

cttccactag ttctaaatcc ccaaccgctt cccttttttt tttttttttt tttttctttc 60
ttatgcggtta tttttaatac ccatcagatt ttctatattc catttcaaca ccactctacc 120
gatatctttg acccaaatcc cacaaaccag ccaatccccc aaaaa 165

<210> 19456

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G12

<400> 19456

cttccgatga tgattgaagc ctttggcaat ggtctaccta atggcttact ggcattcctt 60
aatgggaggt atcctggcta gccctggctt aattaactga atggggtagc tttgaaaggt 120
tggagggtta aaaggaagga agagaggaat tatatggagt gattagatat gaaggctatt 180
aatatctaac ctagtaacct gtatgaggat tagacacaaa cggggattag aaggaaaact 240
cttctttctt gttcggttgc gggcaaggcc ccagtcggc ctcctctctc cttctaaacc 300
ctagctactg ccataacatc tggatatagga gattgccagg ttccaatgag ggcggcaaac 360
agtcgaaggt gccacccct gccgcctgg catgtatcta tgcgtgcttg gaatcctggc 420

<210> 19457

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-G2

<400> 19457

aattcccggg caagaagaga gccgatcgac cgagagctag cacgcgatgg ccaaggcttt 60
caaaatgaag ggggccggaa ctttggttgg ccctggccct ggcgtgtcga ccgccgaggc 120
gaggaacatc aagacgacga cggagaagaa ggacgacgag gtggtgcagc cgcagacctt 180
cccgcccttc gaccgcctcg gcggcgggcg gtccccggcg ttcggcggcc tccccggcgg 240
cagcattcct ggcagcagca ttcccgggtt cagcatgccg ggcagcggca gcagccttcc 300

cggtttcagc ttgcccggca gcggcagcat gcccctcttc ggcggcggct ccccgggctt 360
cagcggcttc ggcggcgatgc ccgggtcccc caccgcgggc tccgtccccg agcacgccaa 420
caagccctga actccgtctg tccgtccgat ccgtc 455

<210> 19458
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-G3
<400> 19458

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acaacaaggg ctggagtgtc cgggtgacat tgttcaactg ggaggatgtc gacatggcca 120
attggtttgc tgccatcgtc atggacaagg cgtatgacgg ctttgagaag gcgtactcgt 180
tcaacggcac tgcagtgggc aagaacacga tctttatgca gggctctggag gggcttaatt 240
acctggtgaa gcagaccaac atgagcgggt ccgactacct tgttcctggc aagcaacagt 300
cagtcctctc attcaccaag aagctgaccc cgggggttaaa tgcgttgct ggagatggct 360
tcccaacaaa ggtcttcttc aatggcgacg aatgcgctat gccacagaga attccgatca 420
gcactggatt t 431

<210> 19459
<211> 416
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-G4
<400> 19459

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ttagccaatt tcaatggccc atctgtggaa atctcaacga ggatctttga tcaggcatgg 120
cgcttgcaag ctaccttgtc ctgatgactg ccattttctt atgggctatg cacaatactc 180
gatttcttat cggacaaatt cgatgatgac gtcgatcatg tacagctatc atgaaatgat 240
ctccggccta tacctetaac tgagtatcat gagccaggct gtgatcttag tcacctgata 300

ccgtaactag accttcgtgg aacgccttgg tctgggttctt gtcaccgagt tcttgcttga 360
 taaacttgcc gtcagcttgc tctatgtcta cgccaactgg ggctatgaca ggatca 416

<210> 19460
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-D7
 <400> 19460

cgaaagaagt gtatgacaca ctactcgcct attctgcata cgctgccttc tacgatcggg 60
 gacaccgtac accatattgc ttgctctcaa agaggaacag ttgaaaaact cacacgcctt 120
 ttacatctca tcaccacgtc gatcgtcaag gaccttaact cggcgtcgaa acacacgaaa 180
 ggcacacacg atcaactcga tgaaatgttc atggtcagct aaatttgtat tgaaccagta 240
 tattgcgctt gtcattgttc ttgcacata ctggatccac gagcatctct ctacttttac 300
 taacgaccta accgactact tgatcagact tcaatacgtc ctgatcagat tgaatgtcgt 360
 tttcataagt catatgtg 378

<210> 19461
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-D8
 <400> 19461

gcagagactg gccttagcct gttgttggag atcttgaaaa aattccaggc ttcaggaggg 60
 caaaaccaat tctacaaaac ctactttttg acaattgagc aagagatttt tgcagtcctc 120
 acagacacat tccacaaacc tggtttcaag cttcatgttt cggtgctaca acacttgttt 180
 tgtgcggttg atggtctaac ggagcctcta tgggacgcgt cttctgtacc ttaccaatat 240
 acggataatg ctatgtttgt tcgagattac accataaagc tcttagggac atcatttcct 300
 aacatgacag taaccgaggt gacaaagttt gtagatggtc ttcttagttc aaaacttgat 360
 cttccaagct tcaaaaacca tattagagac ttgctgggtc agtccaagga gttctcagtt 420
 caag 424

<210> 19462
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-D9

 <400> 19462

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 ggttgcccaa ggggtgcatta aggcactctg ggatctgctt ggttgccccg atccccaaat 120
 cgtaacaatt tgcttgaag gtctcgagaa cattcttgaa gtggccaag cagagaaaaa 180
 ccttggtgca agtgatgtca atgtctatgc acagatgatt gatgatgctg agggcctgga 240
 caagattgag aacctgcaga gccatgacaa caccgagata tatgagaagg ctgtgaagat 300
 gctggaatcc tactggctgg aggaggaaga tgatgccatg ccctcaggcg acaatcccca 360
 gaatggcttc aactttggga accagccctc tgttccatca ggtggattca actntggctg 420
 aagatgc 427

<210> 19463
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-E1

 <400> 19463

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 gtgtgagcc atggcatcca agggcgctct cttcttggtt ctcaacctcc tgttcttcac 120
 agtggccaac gcctgcggca gctgcccagc cccaacgccg ccggtcgtgc caccgccgcc 180
 gcctcctgct gctacccac ccccttcac atccagtggg aagtgccgc tgaacgcgct 240
 caagttcggc gtgtgctca atgtgctcg cctcgtcaaa ggcgaggctg gcaaggatcc 300
 agctgagcca tgctgcaacc tcatcaaagg ccttgagac ttcgaggccg ccgtctgcct 360
 ctgcaaggcc atcaaggga acgtcctcg cgtcgtcttc gatgtcccta tcaagttcaa 420
 tgcccctcgt ca 432

<210> 19464
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-E10

 <400> 19464

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 gccgtagcca tggcttccgc tgcgcagaag aagatggcaa ttgtttgctt gatgctgctg 120
 gccgtcgtcg gccaaatcgt cgctgatgct gatgttaccg tagaacatcc cagccgcac 180
 tgcaccgaaa cggtgattga tcctcgtggt cccaacaacg agtgcataatg ctccaagaac 240
 tgcgcctgtg cccgcaagtg cataacttgag tcgcctgatg ctgtccaaac ctgctttgtc 300
 gactgcgtnc tcaagaacga ctgcatctgc agcagcaaga tca 343

<210> 19465
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-E11

 <400> 19465

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 ggctccgggg gcgcgaagcg cgggctcggc ggggcgactc gccggcggcg acctgcaggt 120
 ttgggtatga gaggggtcac ccacgcggcg cccaccacaa gcgccccccg cccccgcgga 180
 cgcctcatgg acggcctcct catcttcgtc ttctacctct cgctgccac ccgtgccggc 240
 cgcgaccaact cgtcaatcgc cgcctctaat tgtagccgg cggcggcacg ccattgggtcg 300
 gcacggcttc cgagaagctc gatctggggc ctaaccaggc agcctcacgc gggatcagga 360
 tcgatggacc agccaccgaa tggattcgcc ggcggagggt ttttcacgca cattgatggg 420
 caaaaccg 428

<210> 19466
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E12

<400> 19466

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tgagatcatc tgcctattct gggtaggagt tgccgataat gttggctttg acaacaaacg 180
aactgctctg aacctccctg gaatccctat tgcaaccgga ttgtatggtt attgctactc 240
agggcatgcg gtgtttccaa acatctactc ttctctgaag aagcgcaatc agttcccttc 300
aatccttttt acttgcatg ggctgtctac catttcattt gctggtgcac cggatgatggg 360
atacaaaaatg tttggtgaag ccacacagtc tcagtttaca ctgaactta 409

<210> 19467

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E2

<400> 19467

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ctgtgtcatg gcagagctgc ttctaggaca ggctctgctt cctggagaaa gtggagtcca 120
ccaactactt gagatcatca aggatttggg tactccaaca agggaagaga tcaagtgcac 180
gaacccaaac tatacggagt tcaagttcct acagattaaa gctcatccgt ggcacaagg 240
ttctcaaaga atgcttccac ctgaagcact ggaccttgct agcaggtttc tacaatactc 300
accaaatac cctgacactg ctttgcacgc ctgtatgcac cctttcttcg atgagctgag 360
agaccacac actcgtctac ccaatgggtc ccctctgccg cctctcttca acttcaaata 420
tcaagagcta a 431

<210> 19468

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-E3

<400> 19468

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 gggtcagagt cattttccaa ccattgggat ggcttggatt gctttcaagc tggacaaccc 120
 ggtcctaacc tggaaggaaa aggatcttgc caaaccaccg aaagcttgcc caatcttcct 180
 tttggaatga aaaactaatt aaaagatcgc cagttgtgtc attatcctca gcttcagctg 240
 tttcccaagt aaatgcaaag aatgatataca tgagtttgtt tgagaagtcc aacatggcat 300
 cgccattcgc tgtccaacag cagcagctgg cgtttatgtc tcagcagcaa gctcttctaa 360
 tggctgctct taaagctgga aattcaccac aaatagttcc agggaatgcc aatcaactaa 420
 acactaacgt ttctagt 437

<210> 19469
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-E5
 <400> 19469

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 gagcatgata tttcttgtgt ggagcttttg gatgtgaagt tggatgggat tgttttaaca 120
 aaacaaaaag cggagaaggc cggttggttg gctagaaacc actatctgtc atcaacaact 180
 ctctcttcta tcaaaggatga cagggttaatc attccccgtg agagtctgga tatatcaatc 240
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 gctaaagatg agtatgagcg caatttcatt tctgctgggtg tgcctccgaa tgaaattgga 360
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 aca 423

<210> 19470
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-E6
 <400> 19470

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tacgtcaacg gacgtggaac ccatcgccca tgggaggagg gcacgaggag caggagggtg 120
 gggcgcaaaa ggccgggggc tactectccg gtctcccgcc gtcggagccg ccgcacctgc 180
 agggccagcc gccgcaggag tacgggtacg gcacgttcca gggccctcgg catctctccg 240
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 agcaacagcc gtacgcgcac gcggagacgt actacgcca ggggtaccag gccgtgccag 360
 gctatgggtcc tgttgctgaa ggaagacctg tgagaatgag gcgtctccca tgttggtggcc 420
 tcggcttagg ctggtgcctg 440

<210> 19471
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-E8
 <400> 19471

tggtgggcat gttcatatta taacatgcaa tgatgactta taccagatga taatagtagc 60
 atacacagat gtgaaaacta ttgtatctaa tttcaaagct tcctgatgtg caccatgccca 120
 tgtcattgct cctgtctatg cttaaacgtc aactacttat cctaaactaa tagacttgac 180
 aatacacatt aatcacttga tattacttca actcttcata tgacatccac gcaacaacga 240
 cattcttctt actcaacaac ggacaactaa tctacaagct agttgacgca aacaaacctg 300
 agc 303

<210> 19472
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-E9
 <400> 19472

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 ggtgcctact gcggggggcca tggcaagcct ctctccatct tctatcggcc caaaattgcc 120
 tgccaacacg ccgacgggct cagccaagtc ccccgcgga cggtcaccg tcgnccggagg 180
 cctcgtcgcc ctgcgcgcgc taccgctgc cgtcgcgcc gggatcatgt tctagagcat 240

ctaccgggtcg tcttagactt tgtgatttct tcgtcatcat tcttcttaca gcacacacat 300
 gtttgtgcat tatggtacta gttcgttaat tcacgtacaa acagctagct gttccaggca 360
 cgagattctt ccggatttgt ttccttgtaa taattcccct tgatgagcgt gtgtttggta 420
 tgtttct 427

<210> 19473
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-D6
 <400> 19473

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 actgatgcag ttatcaaggg gccgtggaag cttaaattag tttttgaggg aaaagaacag 120
 catgttgagc tggaggtgtt caacttcact ggtgccggag gagttgcctt atcaatgtac 180
 aacactgacg agtccatcca tgcttttgct gacgcttcta tggccactgc ttatgaaaag 240
 aaatggccat tgtatcttag caccaaaaac actattttga agaaatatga tggcagggttc 300
 aaggacattt tccaggaggt gtatgaagct ggttggaata ctcaaatttg aagctgccgg 360
 catatggtat gagcaccgcc ttatcgatga catggtagca tacgcactta agagtga 417

<210> 19474
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-C12
 <400> 19474

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 aagcttgctg tatatggaca ggttcttctg actagagttg gtatcctttg gttttttgct 120
 cttccaattc tttgcagtca gttcatggat cttgtaactg aacagtgttt atttgtatag 180
 atctgccacc agataaagag cctcttgatt ggaacacacg gatgaagata gctgcagggtg 240
 cagctaaggg cttagaacac cttcacgaca aggcgagtcc tcctgtgatt taccgggatt 300
 ttaagtcac aaacattctt cttggagaag gatttcaccc gaagctatcg gactttggcc 360

ttgcaaaact tgggtccggtt ggtgacaaga cccatgtttc aacacgtgtg atgggtacat 420
atggctactg tgccccagaa tatgca 446

<210> 19475
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-C2

<400> 19475

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caaattgata caaaaattgg agcatcatca acaaagatgt atttcacta ctacgggcaa 120
ttattacatc agcaaaacat gttacaagat tntgttcgga caggaacata ctatgctgct 180
gtaatggaaa accgatctga ctttgaggggt cgagttgtgg ttgatgttgg ggctggaagt 240
ggatttctgt cgttatttgc tgcccagggt ggtgccagac atgtctatgc agttgaggca 300
tcogaaatgg ctgaaaatgc tcaacgtcta atgtccggga atccgtcact tggacagcgg 360
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atttctg 427

<210> 19476
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C3

<400> 19476

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cccggccttc cggccggggc ggttccccgt ggggcagcgt caatggccct ggcctaaacg 120
gcccggccgc aagcactggt ggcgcgcaca gaccgcgcaa gtgcagccac ggatcaggcc 180
aggtacgtcc acggcgcggg gtgcttttgcg cggctccgcg acggcgcaca ggcggctcag 240
gcttgcgggc tcgcgggccc aacccccggc tggcgcgggc ccggccctag cctcggcgcg 300
ggcgaggcct tccggcgcgc ggccccctgt gcgagcgcac cccggcgggc agcgcgaccc 360

ctgctgcgag cgcgtcccgg cggcgagcgc gaccctgca agtcacaggc tcggggcggg 420
cagcctattc gc 432

<210> 19477
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C4

<400> 19477

ggcaaattatt gatgcagcgg tcagaaagtt ttcagacaaa ttcaccatta tgttggttcca 60
ttatgatggt cggactacag agtgggatga atttgagtgg tctaaaagag caatccatgt 120
gagtgccagg aagcagacaa aatggtggta tgcaaaacga tttttgcatc ccgatgttgt 180
tgccagatat gattacattt tcatctggga tgaggatcta ggtgtagagc atttcaacgc 240
agagaagtac attgagcttg ttagaaagca tgggttgga atctctcagc ctggtttgca 300
acctgataga ggactaacat ggcaaattgac taaacggcgt ggtgaccagg aagttcacia 360
agtaactgag gagagaccag gctggtgcac tgatccacat ctaccacat gtgcagcatt 420
tgttgaga 428

<210> 19478
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C5

<400> 19478

ccatctccct acggctcgtc taacttaaaa cctcacacgc ccctaact ctctctcta 60
ctcacccct cacactctac cacacaccct catatacacc ccctc 106

<210> 19479
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-C6

<400> 19479

gctagccacc tgctggaatc cttcgtcgcg catgccactg cacgggtcatg tctgactcgt 60
 ctcgtccgtc gtcgctaggc tggctggaaa ggtggcgctg atcacaggcg gcgcgagcgg 120
 catcggcagg gcaacggcgg cggaattcgt ccggcacggc gccaaaggtca tctcgcgga 180
 cgtccaggat gacctgggac gccacgtcgc cgcggagctg agcctgccgg ggggcccggc 240
 ccggcgggcg tcactacac ccgctgcgac gtgaccgacg aggcgcaggc cgcggcgggc 300
 gtggacctgg ccgtggagct gcacggccgc ctcgacgtga tgctgagcaa cgcgggcac 360
 agcggcagcc tggcgccggc cncgtggcg gcgctggacc tggccgactt cgaccgcgtc 420

<210> 19480

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C7

<400> 19480

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 gcggcgaggc tcacaaggct agcaacgaca aggaggagca tttcgtgctc gtgcacggcg 120
 ccggccacgg cgctgggtgc tggttcaagc tggcgtgcct gctccggggc tccggccgcc 180
 accgcgtctc ctgcgtcgac ctcgccgggg ccgccggcag cctcgtcgac ccggacgacg 240
 tccgctcggt cgacgagtag gacgcgccgc tctcgcactt gatggccgcc ttgccggacg 300
 acggccgcaa ggtggttctg gtagggcata gcgcaggagg actgagcgtc acccaacgca 360
 tgcattctgt cagagacaag atcaagcagg ccatcttcgt agcagcgacc atgctcccg 420
 tcgggtac 428

<210> 19481

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C8

<400> 19481

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 gcaagcagct tgccaacatt tgaggagatc aagaatactc ttggcttcaa ccaactattac 120

gaagaagaca aacgatatgc ggtgacacca gccaaccat tgtacgggac tggctatgat 180
aattatacaa gtgaaccgaa cagtccggga gattccaggt ccagggctaa aaaaacacaa 240
gaacctgtta ttgacatatt gcctcagctc tatgatattg gttccagtga cagcagagga 300
ccttcaactg gaatgtggtc tcgaactctt cgactaaaga ttacaggaag agatgggatc 360
cagaaaatcg atgccaggat a 381

<210> 19482

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C9

<400> 19482

tctgtttgtg gtccgcattc gtggtatcaa tgccatgcac cccaagacc gcaagatctt 60
gcagctcctg cgtttgaggc agatcttcaa tgggtgtcttt etc 103

<210> 19483

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D10

<400> 19483

tctgtcatag agtgggaagc ccacagccgg ctttccaatg ggcttaccct tggctttctt 60
agggggccgaa ccaaagaact tgggtggcct tttccgtcat gaccaggga ttcctggaac 120
ctacatcggc tttcaattga cgttcaatgc tggcacagct gctgcagggt ccgcgagtag 180
gacggctcta atctctccat cacgtgttat tatctggtgt ttccataatg cgatttgatt 240
tcaatttggc gttagatgtt gtacacgtgt atttaactgc ttgagttgta cgtaatttgt 300
atacttgtaa ctttgtttta taatatggct attactcaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaatata aaaaaaaaaa aatataaa 398

<210> 19484

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D11

<400> 19484

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gatcttcatg gtgagaataa aaacgtgtgt tgttggtgtg ctgggtctac gccactagta 120
tttctgggtgt tacttatgtt cctaggtaaa actgcgcagc cagagcagag ctgaagaata 180
tgtactgctt gctcgtcttt gtgtggttgt gtctaccctt actagcattt cagctttgtt 240
gtaggtaaac tgcgaaccca gagttgcaga acccgtagtg ctcgtttaag ttcattggtga 300
actacgagct aaaaggctgt tgccagagtg gatgtcactt gtcactgg 348

<210> 19485

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-009-Q1-K1-D2

<400> 19485

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tcaagttcga ggagaaggac ggcacgcact acgccgccgt caccgtgcag ctccccgggg 120
gcgagcgcgt gccgttcttc ttcaccgtca agcagctcgt cgccaccggc aagccccgaga 180
gcttcggggg gcccttcttc gtgcccagct accgtggctc ctcttcttc gaccccaagg 240
gccgcggggg ctccaccggc tacgacaacg ccgtcgcgt ccccgccggg ggcagagggtg 300
acgaggagga gctccagaag gagaacatca agaacgccgn ctctccacc ggcaacatca 360
cgttgagcgt caccaagagc aacccggaga ccggcgaggt catcggcgtc ttcgagagcg 420
tgcagcc 427

<210> 19486

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D3

<400> 19486

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 ggggttgcgtg gtcaaccgga tcgagatggc ggcgtcggat gttgaatacc gctgcttcgt 120
 cggcggcctc gcctgggcca cggacgacca ctcccttcac aacgccttca gcacctacgg 180
 cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240
 ctctgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaaggca tgaacggcaa 300
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360
 cggcggcggc ggccgggtacg gtggtggccg t 391

<210> 19487

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D4

<400> 19487

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 cagggtatcc atgctgtaaa tcttggggat agtgggttcg tagtagtccg agatggccgc 120
 actgtttctca ggtcaccctc acagcagcat gattttcaatt ttacttatca gctcgagagt 180
 ggagggtggca gcgatcttcc tagttccgca caagtatctc actttccggt tgccccgggt 240
 gatgttatcg ttgctggcac ggatggacta tctgacaatt tatacaacaa tgagataagt 300
 ggtgttattg ttgaagctct ccgggttgga cttgagcctc agattgcagc acaaaaaatt 360
 gccgccctgg ctcgacaaag agctacggac aaaaataggc agtcaccttt tgcac 416

<210> 19488

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-009-Q1-K1-D5

<400> 19488

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 catcgcgccg ttctgtacc cggaactgga gtgggacttc cgactgccgc tcgtgaagag 120
 catcaacgtc agtggacaca agtatggtct ggtctacgcc ggcacgggt ggtgcatctg 180

gaggaccaag gcggacctgc cggaggagct catcttccac atcaactacc tcggcgccga 240
ccagcccacc ttcaccctca acttctccaa aggttccagc caggttattg cacagtacta 300
ccagctgata cgccttggct ttgaaggcta caagaacatc atggagaact gccaggagaa 360
cgcgacgggt ctgaagcaag gtctggagaa gacgngaag ttcaacatcg tgt 413

<210> 19489
<211> 417
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-C11
<400> 19489

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gtaccgcct acacgctggg gcccaagatc tccgactggg acgagcagcg cgccgtctgg 120
caccgncgcc acccggagac gccgcctttc ctcaacgaca tcaagccacg ggtgctgctc 180
gtcacggggt cctcgcccaa gccctgcgag aaccccgctg gggaccacta ctcctcaag 240
tccatcaaga acaagatgga ctactgccgc gtccacggca tcgaggtctt ctacaacatg 300
gcgctgctcg acgccgagat ggccggcttc tgggccaac tcccgtcat gcgggcgctg 360
ctcctcgcgc acccggaggt cgagttcctc tgggtgatgg actctgacgc catgttc 417

<210> 19490
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-009-Q1-K1-A5
<400> 19490

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catcaccaaa aaccaccatt tcctcacgca ctacaccatc tagatccgct acaacaagct 120
catcctcagc gatctttaac tgatcagcgc taactccaac gtgtacaaac tcatcgtacc 180
cttgctggtg aaccatgacc tctagcaagc cactgccaac gtcattaaac gcatctcgta 240
catctgctca aagctgaaac gaatacatca cgctctcaaa tacttgagg acaagcacta 300

cac

303

<210> 19491
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A6

<400> 19491

atctgtagtc cctatccacg catcacgctc tcaggcccta aggtacctgt gtatacgagg 60
ggggatagaa gtgccaaatg ttgcagtcct cgtgggtgaa agcggcgatt cagattacga 120
ggaactgctg gggggctctc ataggaccgt tatectaaag ggcgagttca acatcgccgc 180
aaacaggatc cacacggtga ggagataccc cctgcaggat gtcgtcgccc tcgatagctc 240
aaacatcatc ggtgtcgacg gctacaccac ggatgatctg aggtctgccc tgcagcagat 300
gggtatactg gcacggtaac accttcggga gcttcggtt ccactaccag gtcaacgaag 360
agaaacgaga aaacagacag aatggtgacg aaacaagtgc gaccgtttcc atgctcgatg 420
ggaat 425

<210> 19492
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A7

<400> 19492

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gcggtgttca gtggaactgg ggagcagtga gctcgggtgct gcagtgcgct agcgagggtga 120
agcatctagt gatgaagata gagttctgtg ggcacctgga cgcactccag ccgttcccgg 180
aagtcgatatt ggttgacttc ttcgacaacc accccaaact ccgcaaattt gagatccatg 240
gtgccatggt cgctgccctg tgccagaaaa atagcctgaa aaatttgaat tcaagggttc 300
tcatcccttg tttggaagag gttctgatca ctgtacgctc cccactcaat gctgaacaga 360
agctgaacac tctcgagtcg cttctgaagt acagtgtgaa gctgcggacg atgatcatca 420
gaatc 425

<210> 19493
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A8

 <400> 19493

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 gagaagaagg gctatacggg gttcactcct cattacatta cctggtactg cccagaggcc 120
 ttcattctga gcaagcagtg caagtcccag tgcataatc atgggaggta ctgtgcacct 180
 gaccagaac aggattttag caaaggatat gacggcaagg atgtggtggt ccagaacttg 240
 cgccaagttt gtgtctttaa ggttgctaag gagcacaaga agccttggtt atggtgggac 300
 tacgttactg attttgcgat tcggtgcccg atgaaggaaa agaagtacac aaaggagtgt 360
 gccgatggag ttatcaggtc acttggcctt gatcataagg cattagataa gt 412

<210> 19494
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A9

 <400> 19494

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 gcagcttcat ccacgtcgcg gacgccgccg ccgaacggga agccgaggaa ctgcaccgga 120
 agattgcctc cggggagaaa gatgcggtgg gtccgctcgc tggagtgctt gtggg 175

<210> 19495
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-B1

 <400> 19495

 agggattcta acaaaggttg ccaaactatg aaattgcaaa cctagggctc taaagtaggc 60
 aaatgatggt ccaaagcatc tatgagcctg tttgtttcag cttctggcag cttctggcca 120

ctaaaagctg ctacggactg ccaaacgctc agcttttcag ccagtttcta taaaattcgt 180
 tggggcaaaa accatctaaa atcaacataa acacataatc ggttcagtcg ttgtaatagt 240
 aggaatccat cactttctag atcctgagcc ctatgaacaa ctttatcttc ctccacacgt 300
 aatcgtaatg atactcagat tctccccaca gccagatttt caaaaaagct ggtagaaaa 360
 aagctgaacc aaacaggccc tcgtctgccg atgtaagggt gacactgctg gaacgagcta 420
 tgc 423

<210> 19496
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B10

<400> 19496
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 aggttgcccc aagggtggcc taaatcgta tcaacttcgt gaaggggttt gctttttgctg 120
 cacctatcaa gagcaccatc acttttggac catgaatgct tccctataga tatgaacct 180
 ctgttagact atttgtggat atgtacatat tgacttaaca cctgcaagca cactgttgct 240
 aagtgttgat gtatgat 257

<210> 19497
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B11

<400> 19497
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 gtttcgggtc cggggtgctt atccgcccc gccggccatg tcgaagcaag gaggaaggc 120
 caagccgctg aaggcgccca aggccgacaa gaaagagtag gacgagacgg atcttgcata 180
 tctgcagaag aagaaagatg aagaaaaagc actgaaagag cttaaagcca aagcacagaa 240
 gggcgcgatt gggggctcgg gtctgaagaa aagtggaaag aaatgagact ggtcacccgt 300
 cttcaatacc tagaagatga taaggcagct gtctatctgt gttgcgcttc actaagtgtg 360

attgtaacag tggtagctct tgtgttctgt gttccgcgat gttgcagttg gttgcttgat 420
cgaaagatgt ttc 433

<210> 19498
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-B12

<400> 19498

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caaggttgag ctgggtgtgg aagtcaagtc cccggctgac aagcttgggg cggcgctgcg 120
tgactcgacg gagctgttcc ccaagatctt ccccgagcag tacaagagca tcgagaccgt 180
cgagggcgac ggcaagtcgg ccggcacctg ccgcctctc aagtacaccg aggcggtgcc 240
gatgctgacg ttcgccaagg agaagcttga gacggcggac gacgagaaca aggtggtgtc 300
gtacagcgtg gtggacggcg agctggcgga cttctacaag aacttcaaga tcacgctgaa 360
agtgac 366

<210> 19499
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-009-Q1-K1-B2

<400> 19499

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gcgagcgnca ccacgctcgc acgcacgccc cacaggtaca gctagctccc acccctcaac 120
agcaacagct aagcttctcc tagcagacag caacatgacc gaggaggagg ccaagaaggt 180
ggaggtggaa gtggaggtca ccaaggcggc gccggcgaag gagaacgccg ccgaagagaa 240
ggccgtcatc cccgcgaccg agccgccggc cgcccaggag aagccgccag cgccggccga 300
cgactccaag gccctggcca tcgtcgagaa agttgcagat aaatctgctc ccgagaagcc 360
tatcgctgag aagcaagggg gctccagtat cagagatctc gctcttgcaa ggggtggaaac 420

ggaga

425

<210> 19500
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B4

<400> 19500

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gcgcgcgccg caacgccacg atgaagttca acatcgcgaa cccttcacc gggtgccaaa 120
agaagctgga aatcgatgac gaccagaagc tgcgtgcctt ttatgaccga aggatatccc 180
aggaggtcag tggatgatgct ctgggtgagg agttcaaggg ttatgtcttc aagatcatgg 240
gtggatgtga caagcaaggc ttcccaatga agcaaggagt tttgacttct ggtcgtgttc 300
gtcttctgct ccataggggc actccctgct tccgtgggta tggcaggcgt aatggtgagc 360
gcaggaggaa gtctgtccgt ggttgcatcg tgagccaaga cctatctgtt atcaacttgg 420
tgattgtgaa gaagggtgag aatg 444

<210> 19501
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B7

<400> 19501

gttttcggac agagaagatg gcgacggcgg cggcagggtt ggctccggca aaggaggtgg 60
tggagaagaa ggtggaactc ctgaaggaga tacgggcgca cgaggtggcg atcgcggagc 120
tagacaacct gaatccctcc cgggcggtgt accagaaagc tggcaacatc ttcttctgta 180
agagcgtcaa atcggtgatc acaacggagc agaagcaact tgaccaagcc aaggctcggc 240
tgagcaagct gaaccaagct tgatgggcag cacgctacaa atgttgacct tgaacacaat 300
agagcatgca gatttgaatg gtcttctcgt tgctcattaa ttctgcagtt gggcgttggt 360
gacctaatac atgtgtaatg ctactttctt tttcttgaga tgtatgggta 410

<210> 19502

<211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-B8

 <400> 19502

 aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaagaaat 60
 gaaaaataaa aaaaaaaaaa aaacaaggat gcccct 96

<210> 19503
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-B9

 <400> 19503

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 gctcgccgtc gacgacgtgc ggcgcctctg ggagacgcgc ctgcccgcgc cgcgggtcgt 120
 cggcgcgcgc gagtactgcc acgccaaactt ctcccgctac ttcaccgaag ctttctggga 180
 cgaccccgtc ctgggcgcga gggctctttgc cggccgcgcg cgcgcgccct gctacttcaa 240
 caccggcgtc atgggtcatcg acctccggag gtggcgcggt ggcaactacc gccagcgcgt 300
 cgagcgctgg atggagatgc agaaggagaa aagaatctac gagcttggct ccttgccccc 360
 cttcctgctc gtcttcgccc gcgagataga ggccgctcac caccggtgga accagcacg 419

<210> 19504
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-009-Q1-K1-C10

 <400> 19504

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 ttgagggatt tgggagggat tcattatgaa ccttggagct taagggttc ccggaagtca 120
 attgccaacc gaccctacct gaccagtact accaaaaagt aaaagggaaa tgatttcaag 180

gcattcaggt cattttatca atcacttggt gagaagataa gaccacaagg aaatgggagt 240
 cttgttttca gatagcatca ttctttgatt ttcaatatgt cttccaccaa aagactcctc 300
 aactgtgtta ttcaattata ggctagttgt gccatcaatg tacatagagc tataatntct 360
 gagattggaa gacgtattac tgccgcatta tctttaccaa gtctggcaac 410

<210> 19505
 <211> 224
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-A4
 <400> 19505

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 cctcgggcag tgagagctgt agcactgtag ctgcagctga actcgtcatg tgcattcaccg 120
 acccactgga gccaaaacct ccatgatcac gacccactg caggccgatc ccattacaag 180
 atccacgctc tgatccgttc gccgacgacc gagaccatgc cgac 224

<210> 19506
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 <223> unsure at all n locations
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 cgaccagctc atgagcaaag ccgacaaaact aacaaaattg agttttacaa gatggaatgc 180
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 ggacaatgag aaagcaaaag atgcttttga gaaagcctca aaaggacagg aaatgatctc 300
 ctcaccatgg gacgctgcta agcatatgga atctgctgct gcttttagcaa aagagcttgg 360
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<210> 19507
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-G6

 <400> 19507

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 gcaaacctgg gtgaactaag tgccgttctt ggaaaggctg gtaaagcaac ttgaaaagtc 240
 ctgggccttc caattgtaat tgggccccaa tgcctccttt ggggaagtta gacaagaact 300
 ggaatcatca aatccggcca atcccaatth tggggttcta aaaccaatg tttggcaagt 360
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<210> 19508
 <211> 432
 <212> DNA
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 <223> unsure at all n locations
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 <400> 19508

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 tctcgaaggc tgatgaagat ctagattcac tgacgtttat ccagaagctg gtccactctc 180
 gaggcacggg tcgagaaagt tgcattattg ctgacccttt ggacccgagt ttgctcgaga 240
 agatttcgga ttacgaagaa gatggaatta agtttgggaa aaggcggccc aaacagaggc 300
 tctttttcga cgccgtanac gaagcgtca tcgaacttgc ttcgattgct ggacctgctg 360
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<210> 19509
 <211> 353
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G9

<400> 19509

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agaggagtcg aggacattaa tacaacacaa tgcggcacaa atatatcctt ctatagaaaa 120

aaacctaatac tatagttttc aggcaccatg tcactcatgt ctccattccc aaggatggat 180

ctaagtaaaa tggatcccg c gactctgacc ctccctgggg cagctggttg tgtaatgctg 240

actatgcatt tcactgtgca attggtgtca caacatctct tctattggaa aaaccccaag 300

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<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H1

<400> 19510

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tatgtgaatc cctctctgga agtcatgtgg ccgaattcgt tgagactctc aaggcttttc 120

tcgaacgctg attaagatct atattcactg acgtttatcc acaagctgtt ccactctcta 180

ggcacggctc tagaaagtgt catattacct gaccctttgg acccgagttt gctcgagaag 240

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cttttcgacc ccttaaac 318

<210> 19511

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 19511

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ctgatgaaca tccctcaaca gtgaagtctg caatagggga tctctgtaaa caaccgatcc 180
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aagctgggtca aacaaagtct gagggaagca gtataacttg taaatttcag ataacatggc 300
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acattcctgc ttttgattta agtatnctat gttc 394

<210> 19512
<211> 162
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-H4
<400> 19512

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ggagtccaac agatgtttcg ctaacataat tcgacttgag tg 162

<210> 19513
<211> 111
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-H5
<400> 19513

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atattgggat ccctcgctgg aagtcatgtc gccgaattcg ttgagactct c 111

<210> 19514
<211> 384
<212> DNA
<213> Zea mays
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<400> 19514

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gctgtcaaca acgtagaatt aattgatcag tgcaagaggg agggctatgt acaaaggtta 180
aaagatgaac aaggggaagg ttgtaccatc catggatttg taaatgtgaa taaagtagct 240
ggcaactttc actttgcccc cgggaaaagc ttggaccagt cattcaactt cctgcaggac 300
ctggtgaacc ttcaaccaga aacttacaat gcaaataagc cacaagataa ataagctgtc 360
ctttggggaa gagttcccag gtgt 384

<210> 19515
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-H7

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gcgcaaggag gaggagcgtg aggaggaggt ggaggcggag gcgngggaga ggaagaccca 120
ggagccgncg cagcaaggcc agggcctcag cctctcactc gccaacggca gtggcaggtc 180
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cggatcagta tgtgtgtatg actcagtgcc accggaaaag gctcaagcaa tcatgcttat 300
agctgcagct gcagcggcag cggcagctac caaaagcagt gctgccccta ctgttaagcc 360
tccaatggtg cctgcagcca ctggtgcccc agcagctgtc gtttctcctg tgcttacacg 420
gtctccatca ctgcagagca ct 442

<210> 19516
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H9

<400> 19516
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tgtgagcatc ggaatacaac tatctagatg cattacgtgt taaatgcctt ggatttgttc 180

atgtcatcta tataaaaaca tgtttcatgt ttagcttata atagtttata gttgagactg 240
 taataactcat ctctcacttg ttttctgtca aggtggtgca acaaatacca attaactctgg 300
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<210> 19517
 <211> 383
 <212> DNA
 <213> Zea mays
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 tgcattgata cctcttcaca agccaaaatg tgtatctatg taccatcagc agctatcata 180
 ttgcatcaca cagtttgttg agaaggattg caaacttgct gacacagtta ttagaggctt 240
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 agaggtttta gaggcaacac agcttgcaga gttccaaaga tgcattggtc cactcttccg 360
 tcagattgcc cgtagcatga aca 383

<210> 19518
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-A10
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 tcgacttccc ggagttcctg aacctgatgg cgaggaagat gaaggacacg gactcagagg 180
 aggagctcaa ggaggccttc cgcgtcttcg acaaggacca gaacggtttc atctcggctg 240
 ccgagctccg ccatgtcatg accaaccttg gcgagaagct gaccgacgag gaggtcgacg 300
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<210> 19519
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A12

 <400> 19519

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 tgatcggtgt gtgttgaaca tgaagaaggc cgaagttgct cttgtcacia ttctctctga 180
 atatgcattt ggttcaactg agtcaaagca ggatcttgct gttgttccac ctaacagcac 240
 agtaatatat gaagttgagc ttatttcatt tgtgaaggac aaggagtcgt gggacttgaa 300
 caatgaagag aagattgagg cttctggtaa gaagaaagaa gaaaggaatg ca 352

<210> 19520
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-009-Q1-K1-A2

 <400> 19520

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 gatattcttc caaacaacaaa aggattgcca taagatcacc cggcagctta gaatggatgg 180
 gtggccagca ttatctatac atggtgataa agtcaagct gaacgggact atgttcttgc 240
 agagtttaag agcggcaaga gccccataat ggctgccaca gatgtggcag cacgtggtct 300
 tgatgtgaag gacataaagt gtgtgataaa ttatgatttt ccaacaactc ttgaagatta 360
 tattcacagg ataggtcgaa ctggccgtgc tgggtgctagc ggaactgcat ttactttttt 420
 cacacacg 428

<210> 19521
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-A3

<400> 19521

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gtcaagggca ccatcttttt caccgaagtg ggagatggcc ctaccactgt caccggaagt 180
gtctctggcc tcaagcctgg cctgcatggg tatcatgtgc atgctcttgg tgacactacc 240
aatggctgca tgtcaactgg accacactac aatcctgcta gcacggaaca tggagcacca 300
gaagatgata accgccatgc cggatgatctt ggaaat 336

<210> 19522

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E5

<400> 19522

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gacgacgagg gggcagccat ggggcagcag tcgctgatct acgcgttcgt ggcccgtggc 180
acggtcatac tggccgagta cacggagttc accggcaact tcaccaccat cgcctcccag 240
tgctcatga agctccccgc aagcaacaac aagttcacct acaactgcga cggtcacact 300
ttcaattacc tcgtggaaga cggattcaca tactgtgttg ttgctgatga atcgggtggg 360
caacaaattc ctattgcttt catggatagg gttaaggagg atttcacaca aaggatatgt 420
ggcgggaaag ctgctac 437

<210> 19523

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E8

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cttcggggccc cggcggcagc cgcgcgcgct cccgctcttc cccgcccga agcgctcctc 120
ggcaccgcg aaccttcttt tcgctgcct ctatcgcttc ctcccggcca gcccatacct 180
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gcttcgctgc ttccaccaa tgcccagaaa gaagtgcggg tggatcgga ggccacccat 300
ggtgtgcgcg caccggggtg acttcaccaa cgcctttccc aattcgatgg acccatttgc 360
gatggctc 368

<210> 19524
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-E9

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aataaattaa acaccaagtc tccacaaaca gatactgacc taatagtaaa gcatacacca 180
ccaaatgaaa cagatccaac tctccaatgc aggcaggtaa ttaaaactaaa aagcagtaga 240
acacaagcta tatatatagc tagctagacg tacggtagct gcaaggccca actactgctc 300
gtatggagct aggggaaacc acgaaccacg catgcatg 338

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<211> 434
<212> DNA
<213> Zea mays
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gtgccgctgc ctaaagagcc tggccaacag cgtcaagagc gtcaacatgg gcaccgtcgc 360
caccatcccc ggcaagtgcg gcgtctccgt cggattcccc atcagcatgt ncaccgactg 420
caacangatc agct 434

<210> 19526
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-F10
<400> 19526

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<210> 19527
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-F2
<400> 19527

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443

<210> 19528

<211> 439

<212> DNA

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<223> Clone ID: LIB3062-008-Q1-K1-F3

<400> 19528

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gcagcgcggg acaacaagaa gaaccggatc atcccgcgac acgtactgct ggcgatccgc 360
aacgatgagg agctcgggaa gctactggcc ggcgtcacca tcgcacacgg ccgggttctg 420
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<210> 19529

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F5

<400> 19529

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aacatgggtg tggagaggct cggcgattac ctgatcgagc agggcttcta aaagtctgc 240
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gaaactcagc tgctgtt 437

<210> 19530
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F6

<400> 19530

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gaacatgttc tgatgaagtt ttttttggaa aaa 393
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<210> 19531
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-F7

<400> 19531

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ccgacgatgg gagaacggat atagaataac ttctacagca gctactgtca atcaaactgc 180
tttcatatag agtataccta acataaaatt aatggatgat acacaagaaa ctcttagaac 240
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 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-F8

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cgaggtcagg tacgagaact ggacgacggt gaccggcgac cacttcgagc tcgacgccgn 240
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<210> 19533

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G1

<400> 19533

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aacagcaatg tactgtgact caacaaccgc cgtcgtcgtt caaccgaatc cgaacaggcc 240
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<210> 19534

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G10

<400> 19534

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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 19535

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gccaggagaa agttcgtgtg ttaggttctt tggcatcatc ccctgaccat gatgttgtcc 120
gtgaagtatt gaatttcata ttgtcacctg aggtgaggaa tcaggacgca atatTTTTgc 180
taagaggggt gagttcaggg gcacacgagg tagcatggca atggctgaag gaaaactggg 240
attacatatt gggagcctac tctggaactc tgctcaccta tttcgtcaac ataactgtct 300
cgccactggc caccgacgaa catggtgatg aggcgganga gtttttcaag agcagaacca 360
aggcgaacat cgcgaggact gtgagacaga gcatcgagag ggtgaagatc a 411

<210> 19536
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-C9

<400> 19536

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aaggggaccg cccgcaagtc caccggaggc aaggccccgc gcaagcagct cgccaccaag 120
gcggcgagga agtcggcgcc gacgaccggc ggcgtgaaga agccccacag gtacaggccc 180
ggcaccgtgg cgctgcgcga gatccgcaag taccagaaga gcacggagct gctcatccgg 240
aagttgcct tccagcgcct ggtccgtgag atcgctcagg acttcaagac ggatctgcgg 300
ttccagagcc acgccgtcct ggccctcna gaagccgtcg aggcctacct cgtcggtctg 360

ttcgaggaca

370

<210> 19537
<211> 137
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-D1

<400> 19537

cctnccccaa cccgccttac gacctgacgt ccttccggtt cagccccatc aaggagtcca 60
tcgtgtggcg cgagatgacc cggcgctaca tgacggacat gatcacccac gccgacaccg 120
acctggtgat cgtgggc 137

<210> 19538
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-D10

<400> 19538

gcgattcaac aaagacgtac gtacatgcac aaaactagag cgagctgtgt gtgtgtgtgt 60
tcgtgatttc ctcgatcatg gcgaaggcgc aggcgcaggt ggcggcgagg ttcatgatgg 120
aggcgccgcc gccgcaggtg gtgtcgggtca tgcggcggag gaaggcgcgc aggagcctga 180
gcaccatcgc cgaggacgac agggagatgc tggcgccgtg cgggtcaccg tcggaccacg 240
gccacgtaca tacacataac tagagcgagt agagataccg tctcttactg tgtgtgtgtg 300
tgtgtgttta tcaactcctc gatgcatggc gaaagcgcac gcgcatgttg gcgcgagggt 360
cacgacggag gt 372

<210> 19539
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-D12

<400> 19539

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 tcatgtgctc aggctgtgcg cggtagagccc ctgactgtcc agaggccagg aacacagact 120
 aggagtttct gctatgttgc cgatatgggt gatggcttta ttaagctgat gaatggaaac 180
 aagactggac cgattaactt ggggaaccca ggtgaattca ccatgctgga acttgctgag 240
 aatgtgaagg agttgatcaa cccagatgtg acagtgacaa tgaccgagaa cactcctgat 300
 gacccccgtc agaggaagcc ggatatcaca naggcgtaag aagttctggg atgggagccc 360
 aagatcgtnc tgcgggacgg cttggtgctc atggaggatg atttcc 406

<210> 19540
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-008-Q1-K1-D2
 <400> 19540

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 gccagcggcg gctgattcca gggccatgat ggccgacctt gacgcgccac tgcacgccct 180
 cggattcgag atggacgaac tatccccgtc gaggcttacc ggacggctgc ccatcactcc 240
 catctgctgc cagccgttca aggtgctgca cggcagcgtg tcggcactgg cggcggtatgc 300
 gctggcgagc atgtgcgcgc acatgggtgta cgggtaccga cgcgtcgccg gcatgcaact 360
 cagcatcaac cacttccgca gcgcgcgcct cagcgacacc gtcctagcgc aagccgtcca 420
 cgttcacgtc ggacgc 436

<210> 19541
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-008-Q1-K1-D3
 <400> 19541

caaaaaaaaa agaagccgtt ggagcgcctc cctctcaaac ggcactcttc cccactggcc 60
 cactcctgcg ctccgtcccg catacaaac gtccgccaac aatcccccaa accctactcc 120

accacgcgat caccgaccga cgcctctccg acgagcaact caacccccca ccgcgcacgc 180
gagagccgga tccccacgat ggcgacgac cagcaccagg cgaaaccggc ggtggcggcg 240
gcgccgagca cgactactgg cgggtgggcag cgcgcgatgg acctctacga gaagctggag 300
aaggtcggag aggggaccta cgggaaggtg tacagggcgc ggga 344

<210> 19542

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-D4

<400> 19542

gaatcaaggg aggggtgaagc accgccgctg accgctgtcc ccggctcccc gccgccgcac 60
aaagacgaga ggaagagggt cccggcggcg ccacgactat gtcgtcgatg atgaacgcgc 120
tggcgaactg gctggcgaac ccgcgccgca acccgctggc gcgcctccac atgcacgcgc 180
tctcctcgcg cctcaggaat tacggactga ggtacgacga cctctacgac ccctacttcg 240
atctggacat caaggaggcg ctcggtaggc tgcctaggga ggtggtcgac gcccgcatcc 300
agcgccctca gcgtgccatg gacctctcca tgaagcacca gtacctcccg gaggacctcc 360
aggcacagca ggttccattc agaggatatt tgagtgcacat gttggcggtg gtgaaaaagg 420
aaagcgccga gcgtcagtc 440

<210> 19543

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-D6

<400> 19543

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aatattgtac ntgtgttttc atgtttccac acaagaacag aaaggggcta aaatattttt 120
cctttttgtc aggattgttg cttgatccca gaatcaccat tctattttga aggcgaaggc 180
ggacttttta gatacataga aaaacgtttg aaggacaatg gtcatatggt tatccgtggt 240
gcttaaggtg ctggaccgaa actta 265

<210> 19544
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-D7

 <400> 19544

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 cgtcctgacc gggttcatgg acccgcccggt cgtcggcccg gcgacgagga tgttcagcgt 120
 tacggccgct cccaccgcga tcccggcgag ttcacccact gcgcgggtgt cgggtggcgac 180
 ggcggtgacg acgaagagga ggttgaagga gatgatgaac tcggtgaaga acgcctgggc 240
 ggtggagacg gtggcgctcg gcacggtgac gccgtcggag aggaacgggt ggaagacgcc 300
 gcgcacgcag cgcagcttcc gncgctgacg acgcacactg cccgcnnngc gnaggacatg 360
 gtccggcctg gtaaggcacg ccttggtcgt cctcttcttc cgccgcgtaa cgcacggcca 420
 cgacgtgtcc 430

<210> 19545
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-D8

 <400> 19545

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 aacacagggg gggaaggcca cacacacggg gagttgggtg cggggttctg ggtttgggcc 120
 taagtatatg atgatgatca caatgatact agttgaatgt gtgacgtgag agacgatcgc 180
 aacaacgacc ttaatttttag ttctagatga aaaagtcaac tgtggccttg atgacttaag 240
 ttactatgac tataaatgct gctgtgctgg gctttgctac tctcgtaa atgttctacggc 300
 ttgctattaa ctagactgaa ctcttggtgg tggctctggga atctaccttc ggtcttatga 360
 taaggctctg tgtgctgtc 379

<210> 19546

<211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-D9

 <400> 19546

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 cttgggttca tcacatctgt tactttcata tttttgatcg gagtctttat gtcattcttg 120
 gttggggcat ctgtccttag ccttggcgag tggattatta agcgcattgcc ccttggttcgt 180
 catatctaca atgcatcgaa gcaaattagt gctgcaatat caccagatca gaacaaacag 240
 gcattcaagg aagcgggtcat cataaggcat cctcgtgttg gagaatatgc gtttggtttc 300
 atcacatcgt cagtatctct ccagagttat tccgggtcaag atgatcttta ctgggtctat 360
 gtcccaacga accatcttta cattgccgat atcttcatgg tgaattcaaa ggatgtcata 420
 aggc 424

<210> 19547
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-E1

 <400> 19547

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 tttcttgtcc ncacgcacca ccttcaccgg cgccggcgcc ggcgccgnca cgggcaactc 120
 cctctacccc accgtcgacc ccaacgagct cgcacagaac ctcttccccg agacggtcga 180
 agaagacccg gaaccgccac cgcccaccac agaggagacc atcatcgtg tccccggggc 240
 gcagctccac ctcatcgacc ccgaccgcag cgtcgacctc ggcgtggca cgtctccat 300
 cgtgcgcctc cgccaggggg accactccgt cgccgtcctc gcgcgcctga tccacgagaa 360
 gtcccaccgc cgccgcggcc tcttccgctt gttcagcagc gggcggctctg acgctggcgc 420
 cgagcaggag cccgtccagt gg 442

<210> 19548
 <211> 412

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-E10

 <400> 19548

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 aggagcaaaa tcccgtaaaa ataaatcttc acaaaaagat cctgctaata tccgccagac 120
 atttgcagag gaagatcaag aaaatttgta caatcttggt caggataaag ctacttctgg 180
 aaagcagggt cttggcatca aaggcctgcc aatgaaagtt gctggccaac gttggaaggg 240
 aaacaaaact tcgtttgttg atagtgatga tgataattca gccagcccg atgaatattc 300
 agaaatcgaa gagaatggcg atgaggaaga acatatcagt gcttctgaat caatagacac 360
 agataagaat gcagacaaag aattgcttgt ggctgctaga cccaaaacca ag 412

<210> 19549
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-E11

 <400> 19549

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 gtcgatgacc ggcctctcgc agggcgctct gccagcagg cgcgccgaca gcagaaccag 120
 gacggccgtc gtcacgtca gggcgctccgc ggagggcgac gccgttgccg aggcggggccg 180
 ncgcgccgtg atcgggctgg tggccactgg catcgtcggc ggcgccttgt cgcaagcggc 240
 gcgcgccgag accgtcaaga ccatcaagat tggagccccg ncgccgccct ccggtggact 300
 ccccgggact ctcaactctg accaggcgag ggac 334

<210> 19550
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-E2

 <400> 19550

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gcattctgctg ctgggacgaa gattcaagaa gctagctaag agagaagggc ataacgagat 120
aataagcagc gcgcgaagat gcaagactgg gcgccgggtgt tcgtctcgct ggtgctcttc 180
atcctgctgt cgccgggcct gctgttccag atgccgggca agtgccgat catcgaattc 240
gggaacttcc aaaacaaggc cattttcaat cttgggtcaag gcaatcctct tcttggcctt 300
ggccgccttc ttctctgctg ccgtcggggg gcacatgtac ctcggtcctt aggcggcggc 360
gcggggcgcc gtaccttctc tctctcgccg cgcgcgccat cgttctcttc ttttatgttc 420
tctctctata tatata 436

<210> 19551
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-C7
<400> 19551

ccggtggcgg agaacgagga ggaggaggag gaacaggagg agttcaggga catccacgcg 60
ctgagcgcgc cgccgagcca gccgtcgctg taccgccggg cgcgcggcgg cgagccgtgg 120
gggtccgccc cgggcgggag caggcacacg tccgtccgct ccgtcgggag cgacaccgcg 180
cccagcgagc ctttcccgac tatgaccagg gagttctcgg ccatggtcgc cgcagcagcc 240
agcgccgcag cagccagccg tgacgcggac agcgacgtcg tgggcagggc cgaagaagaa 300
gaagaagaag aacttgaaga gaccaacccg gttgccatt gtcccgacag gaacccatt 360
ccgttggcgg gcccggggcc ggcggccggc ggcccg 397

<210> 19552
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-B2
<400> 19552

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cctctggctc nncgactcca tctggtctcc ggccaccggc gccggcgggc ggcgcaacaa 120

caacaccgac ctactcgcg cctccgcgtc ggcagccgac gccggcaagc acaacggcgt 180
 gggcctcagc ctgaatgatg gagggcccg actcattggc tccgggaagc tcgccttcgg 240
 cggcagcaag gccggccgct acaacaacct cccatccgag aaggccgcgc ccgtctacaa 300
 ccacagcggc gccacgatca acggcggcta cgccaggagc gacaacgccg gcctggcggc 360
 gttcaacaag atggggagct acttccacaa cagtaacggc aacggcggcg gcggcgggga 420
 ggtgaagagc tact 434

<210> 19553
 <211> 249
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B3

<400> 19553
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 tactaggcca ttcgtggcat ncaacagcaa ggtttagtcc ttgtttctgc atcacagcgt 120
 cagcatactt aaaatccctg tccctagccc atctgctgac ctctctgacg gtggcaagct 180
 tccactcgag gccatattcg tgtcctgcaa ctgcaagggt agctcacgca gtccaactgc 240
 tgtggtcct 249

<210> 19554
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B4

<400> 19554
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 ggcttgcca ggtaccacgc gggggccctg ctgcagaatg ctacaagatg gctcttgctc 120
 atnctgagca gaatcagctt accgatgcac tatcttggtt ggacgaagca ttcttagccc 180
 ttgcaaagga ccagtcacgt gaagccgaca tcaaagcgca ggccaccatt tgtgctcagt 240
 acaagatcgc agttgctctg cttcaagaaa ttgctcgtct gcaaagggtt caaggagctg 300

gtgctctcaa tgccaaagaa gaaatggcca ggctatctcg gcaccttgct tccctgccca 360
tccaggccaa gcacaggatc aactgcatca ggaccgcat caagcggaac atggaggtcc 420
agaactacgc ctacg 435

<210> 19555
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-B5
<400> 19555

aaaaatagcc agacaatgag cttaacgctt ctccagggct actcctccgc tgaggacgag 60
gacgatgccg ccgccggcgc cggcgctggc accgagctga gcgagtctgg tgattcgtca 120
gccgaggaag ccggatcgga cgaagacgag gagtccgctc ctccaaagcc gccccccaag 180
ctccgccgcc gaccaaacc taagggggga gatgccggcg gcagcgacgg gggctccttg 240
cttgccctcg cgctggaagc cttcgctgat gtctcgggac caccagattt tttgaggcac 300
agggttgccg agccagaaga agggacggaa gccctcgggtg tactcgatcg ccgtgggaaa 360
agagggagca aacagccgnc ttcaggtgct gttgtggtgg caaaaccaca gatagttgct 420
atccgcgagc gagttaccac aactg 445

<210> 19556
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-B6
<400> 19556

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acaatgcagt tccaaatgtg ctctgtatct ttgactttct gacttggaac aagaaccac 120
tactttggcc gtgcaatatt acatggaggt gcaaagtata gagcaaccgg tagaggtttt 180
gtggtacgac atatcaagtt tgctgagaac taccgtatct attctcgaag ccattttgtg 240
aaagggatgg aagttgcact tttgttggtg atcttcctag cgtatgggtt taacaatggt 300

ggagcagttg gctatatttt actctctata agcagttgga ttatggcatt gtcttggctt 360
 ttgcttcct atttatttaa ccca 384

<210> 19557
 <211> 303
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B7

<400> 19557

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 ttcttggtcc ctgatectcc ttggtctcg cggttcatgg cgatgtggag ggccgccgct 120
 aggcagctgg tcgaccgggc gtcggtcca agggccgcgc acacgtctac aggcagcaaa 180
 aagatagtcg gngtgttcta caaggccggg gagtatgccg acaagaacct caacttcgtc 240
 ggctgcgtcg aggggtgcact cggcatccgc ggctggctcg agtcgcaggg ccatcaatac 300
 att 303

<210> 19558
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B8

<400> 19558

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 atgttgctgg caagacctgc attgcgaact ttgacgagt ctggacgaac atgcccgtgc 180
 ttgattctcc ggtggccagc cctgttgagg ccaacagcaa ctttgtgggg ttcagttatg 240
 tgaggcccgc accgttcctc cagaagccga gtccacttgg ctaaagaact acttccgtga 300
 tctgatatct accccagagt tcaaataact atctctgagt ccgaatccta tgtatttctt 360
 caagacatta gtcattggaa tctaacctta ttgttgtgtt gtgggtaggc cagccaagcg 420
 cctattgctt gagaacaaca gcttggaag tgacaatgtg caata 465

<210> 19559
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B9

<400> 19559

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 actggaagtg tgcactgaca gcgtccaagg ctccctggaa gatcgctcgtg ggtcaccacc 120
 ccatcagcag cgctgcggg catgggaaca aactgagct ggaggagtgtg cttctcccg 180
 tctcaggac acacgggggtt gacatgtcct tgaatggcca tgaccactgc cttaagcgcg 240
 tcagcaccaa aaacagtcgt ttccagctac taaccagcg cggcgggttcc aaggcattgg 300
 ctggcaagtt caagccaacc ctgcacaaag tggagttcct ctacgacggc caggggttca 360
 tgt 363

<210> 19560
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-C1

<400> 19560

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 tggcaggggg naagggacag aaggtctccc agggaaagaa aggtggtaag aaaaagaccg 120
 gcgatccctt ctctaaaaaa gactgggtatg acatcaaagc cccatcggtc ttcaatgtgc 180
 gcaacattgg gaagactctc gtgtccagga cacaaggtac caggattggc tctgatggtc 240
 tgaagcacag agtctttgaa gtttgtctag ctgatcttca gggtgacgag gatcaagctt 300
 acaggaaaat caggctccgt gctgaagatg tgcaaggcaa gaatgtgctc acaaacttct 360
 ggggcatgaa ttttaccacc gataagctca gatctctagt aaagaagtgg cagacattga 420
 ttgaagccca tgttgatgtc 440

<210> 19561
 <211> 388

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-C10

 <400> 19561

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 aagcgtggta gtcagttaaa ttgtgttggt ttaccagatg gtcaggctaa gagtagtact 120
 attggaaagg gatttgaag gattttggat tcgatctctg ctcccccagc ttttgcagga 180
 gagttcccat ctaaccaccg catatccttg gctcgtatct ctggagcgcg ccccatcaca 240
 ctccatgttt ctgctgaagt gatccatata ggaagtttag ctgttccttc tggcgcagat 300
 aagtggg'gcg tgcanaagga tcaaagcatg gagctgctct tctctgcaga ttttgaacct 360
 gatgcccgtg tacattgtgg ctgcaaca 388

<210> 19562
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C11

 <400> 19562

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 acttgcaacc aatgctcgcc tccaacatcc tctcttacca ccaccccatc atcatccctt 120
 gcagtcacg caacaacact gagctccagc acttccttct cccacatcct cagcacacac 180
 agttttcaca tgtacttcaa tgcccatgac cactaccttc 220

<210> 19563
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C12

 <400> 19563

 attgtcactt ccattttctc aataccttaa gcaaggacca atgtctcaag cccagccgcc 60
 tcggtcccaa gccagtgga aacacgttaa atttcaggat aaccaagcta atgccatgaa 120

ggaaccagga actggtgggt atggctatgg gacgaaaaat gacaagaata aggatgtgga 180
tacaatagct tcggacttca tcaagctgaa gcacaaggct tgggcactcc agaagagcac 240
aaccatgtac caaccttcta cctaaagggtg ctgcttgacag ccttgatat ttgcggagt 300
aagttacat ggcacg 317

<210> 19564

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-C2

<400> 19564

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gatgttgtct tatgggaggg gcgaccatgg tcgtctgggc tacggcagga agctgacgac 120
aggccagccc atgggagtgg acattgacct gccgccgcc aagacctgca gcagccggga 180
cgggcagtgg caggcgaagt acgtggcttg tggcggggcg cacaccctgg ctattgtggt 240
gtgggcagag accaccgact gatcacggag tgatcaactt cctgaatcct aatctgggtg 300
caaactctgag tttgacaatc ctgctagata attatagtgt tagtgaaata agcataagtt 360
atgcgacatt aggcatacata aatTTTTatg tatgtgctta atttggcaag gaacaaaaat 420
agtcgggaag aggactt 437

<210> 19565

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-C3

<400> 19565

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gactcagatn gccagcnct gggtcggcc ccaagtgtac ccgtgttcg cggcgacagg 120
cgtggccgctc ggcactctgcg ggtttcaact cttccggaac atcactggca aaccggagt 180
caggggtaac aaagcaagga aggcaactgg tgtgct 216

<210> 19566
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C4

 <400> 19566

 agcaattaaa gatgacagac tggaatatgc atcccttcaa gcaatcctgt ttggggccatt 60
 tgttcgggct ggcctatcca ctggtgactg ggatgcaaaa gctggcaacg gcagtgcctat 120
 ttcagattgg atcacgctg tccctccagc acacaactca cagctggtaa ccttcacaca 180
 agtatccaat ggaaaggcat ttgtcctctc aagtgc aaat ggcaccctga cgatgcaaga 240
 ggcacctgaa gtcgacggca ccgacgccgc catccatgcy acattcaggg ctcacctca 300
 ggaggactcg acagagctgc atgacatcta cagcacaacc ttgacgggaa cttccattct 360
 gctcgaacca ttcgacttgc caggaaccgt gatcaccaac aacctcactt tatctgggca 420
 aaagaacttc gaattccttt tc 442

<210> 19567
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-C5

 <400> 19567

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 gaacagatca aggaagccgc gtccaaggta cgagtgtgaa cccgggggtct tgttccacaa 120
 tctctgaacg tgtgtttag gtggaaagtt cataaaactta gcagtaactc attgatcctt 180
 gtgttcttta tttctcgtg aattttgacc atagtcaacc gttcaaaagt cagtgcagc 239

<210> 19568
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-B12

 <400> 19568

ccccgagcc gccctagcac ccgcgacgag caggatctgc ccagttgctc ttgcggtagt 60
 tccggcaact gtcacatgc agaacgagga gggtaagact gtggacctct atgtccccag 120
 gaagtgctcg gccacaaaca ggatcatcac tgccaaggac catgcctctg tccagatcaa 180
 cattggccac ttggatgcga atggcctgta tgatgggtcac ttcacaacgt ttgctctctc 240
 tgggtttgtc cgtgctcagg gtgacgcaga cagctccttg gacaggctgt ggcataagaa 300
 gaaggctgat atcaagcagt agattttaca tctagtttac caagaattgg acaccgnctt 360
 agctatgttt tgaattcatg tcactatatg caatg 395

<210> 19569

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-C6

<400> 19569

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 actacatttt ccacaacgcc ttatatatct atagcttaat aatacacatt actatcatcc 120
 tctatcctct gactcacaag tctacctagt tctgcttctt cactattctc cacggatgag 180
 gtttatacta acaccatcca ctgcataaac tgcactgaac tataccatca tatca 235

<210> 19570

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-H10

<400> 19570

cagccatcat gtcggaggag aagcaccacc acttcttcaa ccaccacaag aaggacgagg 60
 agcagcccg cggcgagtac gggactccg agaccgaggt ggtcaccgcc accggcgagg 120
 gcgagtacga gaggtacaag aaggaggaga aggagcacia gcacaagcag cacctcggcg 180
 aggccggcgc catcgccgcc ggcgccttcg cactctacga gaagcacgag gcgaagaagg 240
 accccgagca cgcgcacagg cacaagatca cggaggaggt cgctgccgcg gcggccgtcg 300
 gcgccggcgg ctacgtattc cagcagcacc acgagaagaa gaaggaccac agggacgccg 360

aggaggccag cggcgag

377

<210> 19571

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-H11

<400> 19571

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agttgaagca tggcttaaag cctatagctg atgcctgcat cagagaggaa caaaaggaat 120

atgttgattt cgagccatat tatacacata tagtctgtca tgaatgctgc catggaattg 180

gacctattc tatcaccctt ccaagtggta aaaaaacaac agttagaagg gaacttcaag 240

aattccattc agcattggag gaggcaaaag ctgatatagt tggctctctgg gcactgaatn 300

tccttattaa gaagggattg cttinctaaga gcctgtcaca atctatgtat gtctctttcc 360

tggcttgctg cttccgggtca atccgctttg ggctggaaga agctcacgga aaaaggaca 419

<210> 19572

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-H12

<400> 19572

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ctcgggcggc agcaggcagc catcatgtcg gaggagaagc accaccactt cttcaaccac 120

cacaagaagg acgaggagca gcccgccggc gactacgggt actccgagac cgagggtggc 180

accgccaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac 240

aagcagcacc tcggcgaggc cggcgccatc gccgccggcg ccttcgcact ctacgagaag 300

cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaagtcgct 360

g 361

<210> 19573

<211> 299

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-H2

 <400> 19573

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 cattcgctcg aacccccgaag aactggcagt ggcaggtgac tagaggatca ctactttgaa 120
 ctcatataag tgtctaataa tggctgctgt tttaaaaaca agtggcagtt tttgtagtac 180
 acaacagcag catttttcagc aatcaagaag ggatcagttt ttgcatgggt cttattcaaa 240
 tttcaaacat tgcanaagca agaagataat aagcctgctc cactgtgtgc tagagtgc 299

<210> 19574
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-H4

 <400> 19574

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 tcaggtgcga ctgctacgag ccgaacggng agccgatccc gagcaacaag cggcacgggg 120
 ccgcgaagat ctttagccac cctgacgtca aggctgagga accatgggtc gggattgagc 180
 aggagtacac ccttctccaa aaagacacca agtggcctct cggttggccg ctgggcgggt 240
 accctggccc tcaggacct tactact 267

<210> 19575
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-H6

 <400> 19575

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 actgaattga tggaccaaag atgtttcagt tggaatagct catatgatgg ttggacatga 120
 acagaccatg aacaggacca tcatgatgaa caaaagaagc atgaacaaac cttcaacgaa 180

gaagcacaga aaatgatcaa gagtgtcaaa caagcactgg gaaatggtga aggggtgtcga 240
 gtctatggga cgttggatgt gcagaggggtg gctggtaact tccatatctc agtgcacggg 300
 ttgaacatct tttgtgctga aaggattttt ga 332

<210> 19576
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-H8
 <400> 19576

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 ctgtgggttag gaacaaagga gtattctact gctattgata tgtggtctgt gggctgtata 120
 atggctgagc ttcttgccaa agaaccgtta ttcaatggaa aaacagagtt tgaacagcta 180
 gataagattt ttagaacact cggcacacct aatgagaaga tttggcctgg ctatgctaaa 240
 ttaccagggtg tgaagtaaa atttgttaaa caaccgtata atagactaag ggataagttc 300
 ccagccgctt ctttttctgg gcgaccaatc ctgtctgaag ctggntttga tctatngaac 360
 agactgctga cttatgaccc tgat 384

<210> 19577
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-H9
 <400> 19577

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 ggtttatgtc aatgtccttg gattacgtgc tggtagtacc cattctcagc tgtgttttgc 120
 aattgtgagc atcggaatac aactatctat atgcattacg tgttaaatac cttggatttg 180
 ttcatgtcat ctatataaaa acatgtttca tgtttagctt atcatagttt atagttgaga 240
 ctgtaatact catctctcac ttgttttctg tcaaggtggg gcaacaaata ccaattaatc 300
 tggatgttta ttgcttttct ggtaaa 326

<210> 19578
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A10

 <400> 19578

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 gccggcggttc cgcgtccgca cgtggaaccc cctccccaag gggccccgcc tgctggagct 120
 ctacttggtg gccggcggtg cgttcctgga catgtgcctg gagctcggcg gcggcatcct 180
 cgccggcggtc gcccggtcgc gcccgacag cctcatctac ctcgagcacg ccggcatgct 240
 gctcatgttc ttctcttcg gcgcgctcgc cctcctctcc cagaagacaa ggtctgtcgc 300
 cacatttctc caccgtggat ccgcgcactc ttttctcgat ggatcgatcg agttcccaaa 360
 gttggtacag tttgt 375

<210> 19579
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-008-Q1-K1-A12

 <400> 19579

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 gtcagtttct ccattgctgg gatgtacggc attgcagttg ccgctcttgg tatgctgagc 120
 acaatcgcaa ctggtcttgc tattgatgct tatgggtcca tcagtgacaa tgctggtggt 180
 attgctgaga tggctggaat gagccacaga atccgtgaga gaactgatgc tcttgatgct 240
 gctggcaaca caactgctgc tattggaaag gggtttgcca ttggttcagc tgctcttgtg 300
 tccctggcgc tntttggtgc ctttgtcagc agagctggag tgaaggctgt cgacg 355

<210> 19580
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A3

<400> 19580

acgcctagcg acttgcagct tatttcaagg tatacgacat ggctttcatc tgtgttaacg 60
gcacgtaaag cttctggcgg tagcgcaaat tcacctgcag atgctgaatg ggcaactgtct 120
atacctatag aagatttcat atatataatg catgatgtgc atgctgtaat tggcgagctt 180
tcagaatcag gcagcttcat tggacatgtg aatcagttac tagggtcacg ccccatgaa 240
gtattttaatc ttgtgaaaca aagtatactg caagctgttg aacctttaa ggaactgttg 300
cctgcaataa tcaatgttat 320

<210> 19581

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-A4

<400> 19581

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ctcggggcggc agcaggcagc catgatgtcg gaggagaagc accaccactt cttcaaccac 120
cacaagaagg acgaggagca gcccgccggc gagtacgggt actccgagac cgaggtggtc 180
accggcaccg gcgagggcga gtacgagagg tacaagaagg acgagaagga gcacaagcac 240
aagcagcacc taggcgaggc cggcgccatc gccgccggcg ctttcgcact ctacgagaag 300
cacgacgcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga ag 352

<210> 19582

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-A6

<400> 19582

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gatgcgtggc tctcgcactc cactccgac acgcggacgc cggagtcgga gatcgacgac 120
gacctgttcc cgagctggg ctctctgccc gcgttcgacg acatgggcgc agccccagcc 180
cctgccggcg tcgt 194

<210> 19583
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A8

 <400> 19583

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 aaacagacgg acccacccta cttatgacga ggaccatac agctaactca taagtacaac 120
 tacaggctcg ccgggcaagc gctgaacctg agcactgtgg gcgacccgga cctgggtggcg 180
 agagaccccc tggtagcctt caagacggcc atctggttct ggatgacgcc gcagtcgccc 240
 aagccctcgt gccacgccgt gatgaccggc gactggaggc cc 282

<210> 19584
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A9

 <400> 19584

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 ccgggcaatg atcgaagaac atgatacttc tggggggaaa tcaaaaggac aaggaaccgg 120
 aaatgttctc attgttactc ttgttgatgc ggagacagaa agtagcataa acgctaccat 180
 gcttgaggaa gggcttgccc ggctcgaaag aagcaggaga tgggacacta gggaaaggaa 240
 aacggttctc cagaacctgg accagttcca ggacaaggca aagaaggaaa ggctgcggat 300
 ttggcagtac ggagatgt 318

<210> 19585
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-G9

 <400> 19585

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ccctgatccg gcagggccgg ggagccgccg gaaaccgttg ctcgatttcg gcgccggagg 120
cgcgccatcg gtgtctccga ggacggcggg cgcgaggcgg gctggggagc tgaggcgcg 180
cgccgagggc tcagatctgg tatgaccgac ggccggcgaag acgggaatgc tgcggcgccc 240
agggccctct cgcgccggag gggacctgtg cgggccagcc tcgatgccga cgagttcatg 300
gcgctgatgc acggctcgga tcccgtcagg gtcgagctca cccggctgga gaacg 355

<210> 19586
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B1

<400> 19586

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gtgcaagggtt tttgttgact agcacaagtg aagtttatgg tgatccgctt gagcatccac 120
agaaggagtc atactggggg cacgttaatc ctataggtgt taggagctgt tacgatgagg 180
ggaagagaac agcagatact ttaactatgg actatcatcg aggtgggtgggt gt 232

<210> 19587
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-B11

<400> 19587

gcgcgtcact ccaacgctct agtcgacgtg ctgccgccgg aggccgactc cagcatctgg 60
ttgttagcat cgtcggagaa gccaacgtc acttacaacg atattggagg atgtgacatc 120
caaaagcaag aaatacggga ggccggttgaa ttacccttga ctcatcatga gttgtacaag 180
cagattggta ttgatcctcc aagaggggtg cttctgtatg gtccctccggg tactggcaag 240
accatgcttg ccaaagcagt tgcacatcat accactgctg cttttatcag ggtcgtcggg 300
tcagagtttg ttcaaaagtc cttgggtgag ggcctt 336

<210> 19588
<211> 387

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-E9

 <400> 19588

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 agttgatgca tgagatgcat cctggagttc aggatatggc atgtgatacc ttcctgaaaa 120
 ttgttcaaaa atgcaagcgc aagtttgtga cacaacaggt gggcgagaat gaaccatttg 180
 tttctgaact tctgtccaac cttgctacaa ccatcgccga tcttgagcca catcagattc 240
 atacgtttta cgaatcagtt ggccatatga tccaagctga atctgacaac actaataggg 300
 atgaatacct caagagattg atgagccttn ctaaccagaa gtgggcagaa ataatcggac 360
 aagcaagccc aaagtattga tatcctg 387

<210> 19589
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F10

 <400> 19589

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 ctatggtggg cctgatggtg ctgccatgca gagaaggcca ttaatccatg ttaaggattc 120
 agataattta gtggatgtgg cactgactat aatcagaaat gaaatatctt cagttcctat 180
 ctttaagtgc atggcagatt catcaggggt gcctttcctt aatcttgcaa ccttacaggg 240
 gatcttgaaa tttctttgct cgaagctaca agaagaggct gagggctggt cccttctgca 300
 caatcagctt ctcagtattc ctattgttac atggtctcca catacgnga ggtcaagtag 360
 caggcaactc agaactttgc tactgagttc tcctctaaat ac 402

<210> 19590
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-F11

<400> 19590

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aattaaaaaa aaaaaaata aaaaaatatg aaaaatagta aaaattataa aatacaaaat 120
aaaaacatta ataaatatta aataataaaa attatttaat ctatatttta caaaactctc 180
cccttttttta aaatc 195

<210> 19591

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-F12

<400> 19591

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ccacaagacc aagagcaaga ctccgatcaa aggcgctcgc cgtggtcgcc gtccctggcag 120
ccgtcgctct ctccggttgc tccgctgccg atgctcccgc gccagcccc gtc 173

<210> 19592

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-F2

<400> 19592

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tcctgtcttt ctgtggggcg tcgtggcctg gctggagctg gcgggcaccg cgcagggcgg 120
caacttctac caggacacag agatgacctg ngcgatggc cgcggcaagg tagtggacgg 180
cgggcgcggg ctggacctga cgctggaccg cacgtncggc tccgggttcc agtccaagag 240
cgagtacctg ttcggcaaga tcgacatgca gatcaagctg gttgccagca actncgtggc 300
acggtcacca ccttctacct gtcgtcccaa ggcgacnccg acgacgagat cgactccgag 360
ttcctggggc acgtgaagcg ggagccctac acgctgcaca ccaa 404

<210> 19593

<211> 362
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F4

 <400> 19593

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 tctgatcttt tgtcccagca accatcaaga tgtttgatct tgcggaccaa tggggagctt 180
 tctgtgcttg acatggacga tggacatgaa cacactctca caaattcaat tgaactcttt 240
 tgggtcacct gttcgcagtt tgaagagaag ggtagtctta tcaaggaggt ttcattggctt 300
 gattacggtc atcggngtat gcaggtgtgg taccatcac atggagcaga tcgttttaag 360
 ca 362

<210> 19594
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-F5

 <400> 19594

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 ctccgggtca acgactagtt gagagctcgc ggctccgttc gggcgagggg aggaggttca 120
 tgaggctgct gtaggtccg ttgcagccgc cgcgggcggg agtccgtgat tttggacgcc 180
 ccaccgcggc aagatccgga agcgcgttgg ctgttgtgcc gtgagtttca gtttcggtgg 240
 tcgattgctt cagcctgctg agaagt 266

<210> 19595
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-F6

 <400> 19595

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 ggggtgcggcg cagcgagcga gaggagtgga ggatgacggc gcccaagcct ggcgggggag 120
 cggtggcagc ggcgcgggcg ggcgcggcgg ggcccaggac ggtgctcatg acgggggtga 180
 gcaggggggt gggccgggcc ctggcgctcg agctggcgcg tcgcgggcac gcggtggctg 240
 gttgtggcgg ttccgncgag cagctccgct ccctcgaggc agagatcacg tcaccgtcgc 300
 gccatttctt taccctgtcc gatgtctagc cagtggagct gattaatcgc 350

<210> 19596

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-F7

<400> 19596

gagaaacttc cctcgacacc tcgtagctga gagggccata cttcaatgtc tgaagaaatg 60
 ccctggtaac cagctacaag cgctcaaggg tataccaaga aactgagaa tgatgtacgt 120
 acatagttac caaagttatc tgtggaatca tgctgccagt atgagagtgg aaaagtatgg 180
 catctcacag gttgtagaag gtgacttagt gtataacaaa gaatgccctt cagaagaatc 240
 aacttccgta gatattcttg aaactgatga tgaccataca aattcaattg aaatcgatct 300
 atgtttctga gcacaaccag gaagaa 326

<210> 19597

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-F8

<400> 19597

ctcctatgga acctgtacag actcctcaat atgcactgtt ccaggatagc aagaagatag 60
 gagaggttca gcatgctaata cagtttatgt ttcttgata tgggtatcct cctgcatatc 120
 catttcctac cattccgtta gtgtcaaaca ttcaagctga aggctatcag aaaaaaccag 180
 ctggcacaag ctaccgaact tcggaagatt acctaaaaca gtcaagttcc acagaaatgt 240
 cacaagatat accatcaaga ccactaaca tgacaccaca nganaagata ganaagctta 300

agcgccggcn acaaatgcaa gcactgatag ctattcaaca acaacagc 348

<210> 19598
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-G1
 <400> 19598

cgcaagtccc ggcgcgctct cctcagagaa ctctgtgagt cggcgcacga ggcgcccgtg 60
 ctccggggcg atggtggacc cgacgatttc gactggaggg accacggcgc cgtcggcccc 120
 gtcaagaacc agggttcgtg cgggtcgtgc tggtcgatca gcgcgtctgg agcgtctggag 180
 ggtgcgcact acctcgcaac tggcaagctg gaggtgcttt cggagcagca gttcgtcgac 240
 tgtgaccacg agtgtgattc atcggagcct gattcatgtg attcgcgttg caatgggtggg 300
 ctaatga 307

<210> 19599
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-G10
 <400> 19599

cacacacaca cacacagaca agtgggtttcc aaagccaagt gtgtgtacta gcaaccagct 60
 agctggggcg ggagcaggca gccatcatgt cggaggagaa gcaccaccac ttcttcaacc 120
 accacaagaa ggacgaggag cagcccgccg gcgagtacgg gtactccgag accgaggtgg 180
 tcaccgncac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
 acaagcagca cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga 300
 agcacgaggc gaagaatgac cccgagcacg cgcacaggca caagatcacg gaagaggtcg 360

<210> 19600
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-G11

<400> 19600

cccaagcatg caggcaatgc gcatcatgtc cgcttgcatg ggacgatgat gcaaattcgc 60
atgtgattat tgatgaatag tagaaagagg agtatactga gaacgagaac aggcatgcag 120
acatatctgc cgtgccttcc gtggcatatc tagagggaga gaagaaagag tatggaggtg 180
caccatgaac aatca 195

<210> 19601

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-G2

<400> 19601

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ttatagctgc ngctgcagca gctgcggcag ccaccaaagg cagtgtctgcc actgctttta 120
atcctccaat gagcacttct gtagcagctg gacaagctca ggttgttget gaccctagct 180
caataagcaa gcttcaggct gatctcccca ttgccaggag gcaactctctc cagcgcttcc 240
ttgagaaacg tcgtgacagg gtcgtgagca aaagctcgta cagccccgcc aagtcgttcg 300
atggcatgga gt 312

<210> 19602

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-G3

<400> 19602

ttccccgtca aatggagtta ctaagcccg ccaagtagaaa ttgatttcac gccnccttt 60
cagaaggata gatatgatta aagatttggg ggcgatggcc aagctcagta taccaaaaga 120
tctatcaagt gatgaagcga atcgttattt gatagaagca tgtgtgaagt atgatgtgaa 180
atgtccacct tcccaaacga catcgcggtt gcttgacaag ttggttggcc atttcttggg 240

ggagacatgt gtgaatccaa catttatcat caatcatcca gagataatga g 291

<210> 19603
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-E8
 <400> 19603

catcaactgc taccgagtta agtatattct gagctcgtct gcagccaaaa gcttccattt 60
 gcattgcgat gggggctcta ggtcgtggcc tgctagctgg catctgcgcc gtcttgtag 120
 cagcagtggg tgcccttgcc catggtgcgg aacaggaaac agcgtcaatg gtggtcggct 180
 tggccaagtg cgccgactgc accaggaaga acatgaaagc tgatgcggca ttcaacggcc 240
 ttcaagtggc tgtcaagtgc aagaacgccg acggcgtctt cgagaccaag gccctcgggtg 300
 aggttgacaa gtccggcagc ttcagcgttc ccctcccggc tgacctcctn cgcgaggact 360
 gcgagctgaa gcaagactgc ttcgngcagc ttcacaacgc ggccaacaag ccatgccccg 420

<210> 19604
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-G6
 <400> 19604

ggcgaatctc tcgctaactg tcatcaatgg cggccgagcc caagatccta gagctgtcca 60
 acggcgggat caccgcgagg atctccaact ggggcgccac catcacctac ctactcgtcc 120
 ccgacgcca ggggagtgtc gctgatgtgg cgctcggatt cgatggcttg gatccgtacg 180
 tgaaaggcat gtcacettat tatggctgca tagttggccg tgcgcgaat aggatcaagg 240
 atggcaagtt tacact 256

<210> 19605
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-G7

<400> 19605

agaaggaacg ccttccgtcc gctgaccgtg aaggaactaa tgcgcgcgtt caacgatgcc 60
agaggtgata gttcgattgg agtcatcatt cttacagggga agggaaccaa ggcgttctgc 120
agtggcggtg accaggcggtt aagagattct gatggatatg tggacttcga tagctttggc 180
cgcctcaatg tcttagatct ccagggtgcag attcgccgtc ttccaaagcc tgtcattgct 240
atggttgctg gttatgctgt tgggtgtgga catgttttgc acatggtgtg tgatataaca 300
at 302

<210> 19606

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C9

<400> 19606

cccaaaaggc agtacaatgc ttgaacgata tagtgaccaa tgcactgatt catgcccaag 60
agtggcttca ggacatgtca gccttgaaga accatgccat cttccggttt tgcgcaattc 120
cccaaataat ggcaattgga acatgtgctc tttgctacca ttaccagcct ttc 173

<210> 19607

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-D1

<400> 19607

gaaatcttgc aatccacccc tcgaaagaaa acctcaatca acaccagaag ctttcgatcc 60
caccgaggaa gaagagagga atggcggtccg angaggaggg agtcgtgatc gcctgccaca 120
ccaaggccga gttcgacgcc cacatggcca aggccaagga ggccggcaag ctggtgatca 180
ttgacttcac ggccttctgg tgcggncct gccgcttcat cgcgccactg ttcgtcgagc 240
acgccaagaa gttcacccca gct 263

<210> 19608

<211> 388
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-D11

 <400> 19608

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 ctatcagaaa gcaataagtg gtgtatagtt gtgaagatac aagggtgttac taggtacttg 120
 cttaaaccctt cagatatgag gtcatatgtc attaatcgtc atactcaatc ctacatgtgg 180
 acagttgatg atgcatggaa gcttgagttc actgataggt gggactggct gttattcaaa 240
 gagttgcatg ttgtgggctg tgagcgtaat tctcagggaaggaggcaatccc aattcctggg 300
 gtacatgaag tttctggtga gatggaaggg attgttacag atcctttctt acgccctgtg 360
 ccagactata tcangatggg ggatgatg 388

<210> 19609
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-D12
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 <400> 19609

 gtccccgggca tagttcacgt cctgaagaac gggagcatgg aggcacggga gaacgctgcg 60
 gccggactct gcagcctgtc ggtggtggac gaatacaagg tcacgatcgg gggcacagga 120
 gccatccctg ccctcgtggt cttgctgagc gagggcaggc agcgcgggaa gaaggacgcg 180
 gcggctgccc tattcaacct ttgcatctac caggggaaca agggccgcgc catacgggct 240
 ggctcgtgc cactcgtcat ggggctcgtg acgaacccca ccggagctct gctggacgag 300
 gccatggcga tcctgtcg 318

<210> 19610
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-D2

<400> 19610

cttgaattg agcctttgat gatggaagct cttgagaaga ttgagaagga cattaagaaa 60

ccactgttga ggagcgacaa gaagaacatg gccaccctct tggcagagtt tgacaagatt 120

aacaaaaagc ttggctttcg gaaggaggat cttcccaaga tcgaggaaga gcttgaattg 180

gaaattgcc aagtgagct gactgaactt aagaaggaat gcgttgaagc aatggagact 240

caactcaaga gggaggagtt tcaagatgag gagatgcctg atgtcaggaa aatggacatc 300

agaaactttc tgtangcctg atcgac 326

<210> 19611

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-D3

<400> 19611

ggcaagggag aaattgaaga agaaaattgc tacatacaaa aatggtggtg ttattcggaa 60

acaggggggtt gaaagggcaa aagaggcttt tgctaaagat gaagcagatt tagcaaaatt 120

gaagggcgaa gagaaaatgc tccaaggact tgttgataaa ctcaaagagc aaaagaaatt 180

aatagagaat gcagaggaag aagagcgttt aaaaaaaaaa aaaannnaaa aaaaaaaaaa 240

agggcggc 248

<210> 19612

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-D5

<400> 19612

acgggggtcca atttgctgtc atgataccaa cgggtctcgga gctttttggg ctaagggact 60

tcggggtaat gtacaacttc atgctgttag tgaatccact cgggtgcattc tttttctcag 120

ctcttcttgc tggctacatc tatgacaagg aagcagcaag gcagcaccca ggtgtactgg 180

agccttccga ctgctatggg cctgactgtt tcagattgac tttctatgtc tgcgccgtcg 240

tgtgttgctg cggtaccctg ttgngcgtgt tcttcataatc gaggataaag c 291

<210> 19613
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-D6

<400> 19613

gtcgctgccg gccgccgccg cgtccgcctc gtcaagcgca gcagccgccg cagcacgtcg 60
ctctcgtgat ctacgccatg gcggangtgg agcagcaaca ggacacgccg aagctcttca 120
accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggtgcgctac tccaagaaag 240
cggttcgcaa ggcgcagtcg ccgatcgttg agcgccttac annactcctc atgatgcanc 300
gggcgcaaca accggcaaga aggtca 326

<210> 19614
<211> 247
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-D7

<400> 19614

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cctgaagaac ccggaggcga gcgcggaggc gtctcagaaac ggggtgggtcc actcgggcga 120
cctgngcgtg cggcacggcg acgggtacgt cgaggtgagg gaccgcgcca aggacatcat 180
catctncggc ggngagaaca tcagcagcct ggaggtggag aaggcngtgt acctgcaccc 240
ggcgggtg 247

<210> 19615
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-D8

<400> 19615

gcatccagat cgaggaggcc aacagcgcca agaagctggt ggtgattgac ttcactgcaa 60
catgggggtcc tccgtgccgc gccatggctc caatttttgc tgatatggcc aagaagtccc 120
caaagtgtgt tttcctgaaa gttgatgtcg atgaaatgaa gaccattgct gagcaattca 180
gcgtagaggc catgccaaca ttcctgttca tgagggaagg cgacgtcaag gacaggggtcg 240
ttggcgcagc aaaggaagag ctagcaagga agcttgaact acacatggcc tcgtagatca 300
gtgatgccgt aatgtagtat tcgcctaaat aagaggacgc ctngcctcaa ctctgaaaaa 360
actaatgctt ctgtgatggt aa 382

<210> 19616

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-D9

<400> 19616

atcaattcaa gatccaatct ttgctgctgc cactcggcga tccgatcggt ctcgatcaag 60
gtcggtgggc gtggctcgct gccgccatca cctcctcctc ctccccgtct tacttgcttt 120
ggctgctgct gctgcgcggc aggcgcagag tcatggggaa gcctccgcgc tttcatcgca 180
tgctcgtcg caccgctacc ttcgggacca gcaagccgac caccaggacg cttcaatgtc 240
gttaaatgaa gtttctgcgg ttgtttctgt cttgcttggt tttgcaccgt caacatccct 300
accagctatt tcttcttcga agttgaacaa agttcttctt cctaattcat ttgatagacc 360
gcgtgctggt ttctctc 376

<210> 19617

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-E1

<400> 19617

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aacaagcggc cgccagcgga gctcagaacc accatcagca gcagcagcac acccgggtcaa 120
ccttccacac acgcgcgcac acacacatgg cgtcgcagca gaggcaacag caagcggggag 180
cggcggcggc ggcgtccttc gccgtgggct tcgaggacta tcctgccgtg atggcngagc 240
ggctgggcga ggaccggctg atgcg 265

<210> 19618
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-E10
<400> 19618

caagtgggcg acaaggtccg ttcaagaaag cttaaaaact cttgcggtcc tgaaactatg 60
gaaagccctg atggaaccat agttggcatt gaggacgatg gcgagcgtga cgcttacgtt 120
cttgtacgag tccacgcgt acacaaccct ttaaagggtt ctttttcaac ggtggagagg 180
gtaacatatg gttttgctgc tggagactgg gtgcggctga gggaggagga caagaagcgc 240
tctcaggttg gcattcttca cagcatcgac cgtgacggtg cagtggcagt tggcttgata 300
ggagtggatc ccccttgga gggcaattat tcagacctcc agatggctga agcctactgt 360
gtcggacagt ttgtgc 376

<210> 19619
<211> 410
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-E11
<400> 19619

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acccactcc cccgcaggag cggcggcggc ggcggcgagg tcgtaccca catcggcgag 120
cggcggcggc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180
caacaccaag tactacgaga tcctcggggt gcccaagtcg gcgtcccagg acgatctcaa 240
gaaggcctac cgcaaggctg ctatcaagaa ccaccccgac aagggcggtg accccgagaa 300
gttcaaggag ctgcacaag cctatgaggt tttagtgat ccanagaaac gtgagattta 360

tgatcagtat ggtgaagatg cccttaagga anggaatggc ggtggaggat 410

<210> 19620
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-E2

<400> 19620

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gcgtgtgcac ggcgcggcgg tgcaaccaag ggtgggtgaa cccgcagaga ggggcagcta 120
gcttccttcc ttcccaggcg cgcgggagag gttagccgcc gtataagtag acagccagcc 180
agccatgtcg tcggtgtcgt cgtcgctgtc caacttctg ctctgctgct tctacccgtc 240
atccgccggc caccaccgcg gcggcgcccta ctactacagc agccacccga cgagcgccag 300
cacctgcac taccacgagg gcacct 326

<210> 19621
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-E3

<400> 19621

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actgtagctg ctggccaaca catggatggt gttttgcaca ctttgcagat cggctagctc 120
tacatggatt atgatctgat atcaaaatcc atcgataaat gaaagaactt gtttgaggaa 180
tgacgcgatt gtcagaggaa gaacacgttg aaagtatatg aaggctcgta cttgattgca 240
acaaaaaact tcaagaaagc tgccagctta tttttagact cgatttcgag ctttacaact 300
tatg 304

<210> 19622
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-E4

<400> 19622

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aagacgaccg cagaggcccg cctcccccg tctacggcgg ctacggccag ccaccgccac 120
ccgaccgta cggccgcgcg cccgtcgacc ccgatccgta cggtcgacct ccgncccagt 180
ccgcgtacgg tggngccggn gacgcctacg gccacagcgg ccaaggctac gcgcccccg 240
cggcctacgg cgccgggggc cggtagcgca acgtcgtcca cgtcgcgcac gaagtcggcg 300
acgagaggcc ttactacggc ngcgg 325

<210> 19623

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-E6

<400> 19623

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accccgctgc cccaaccag aaaaaccctc gaaaagcggc ggcggcgcga catggcggag 120
gtcgaggctc cagctgctgc ggttcggcgc gcgaccctg aggtggcgac ggtgaccgag 180
ggcggagccg ctacggaggc gaagggtccg cataagctgc accgncagtg gaccttctgg 240
tacgacatcc agtccaagcc caagcccggc gctgcgtggg gcacctncct caaaaaggcg 300
tacaccttcg acaccgtcga agagttttgg ggctgggatg atcatg 346

<210> 19624

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-C8

<400> 19624

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gaaagacagc aaccttctgt tctgggatct tgcagcagct tgactatggt ctggttgaat 120

gccaggccct ggttcttgct cccacccgtg agcttgcaca gcaaattgag aaagttatgc 180
gcgcacttgg tgactacctt ggtgttaaag tccatgcatg cgttggagga acatctgttc 240
gtgaggacca aaggattctc gccagtgggtg tgcattgtgn ttgtggtaca ccctgtcgtg 300
tgtttgacat gc 312

<210> 19625
<211> 282
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-E7
<400> 19625

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caggggatcc atgctgtaaa tcttggggat agtgggttcg tagtagtccg agatggccgc 120
actgtttctca ggtcaccctc acagcagcat gatttcaatt ttacttatca gctcgagagt 180
ggaggtggca gtgatcttcc tagttccgca caagtatttc acttttccgt ttgccccggt 240
gatgttatcg ttgctggcac ggatggacta tttgacaatt ta 282

<210> 19626
<211> 228
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-A8
<400> 19626

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acgataacct cgtgcatgac gtgaaactcg ctgctgacta gactaggatc cccatgggtc 120
actagctggg gctggacttc atgaacttcc acgagctgtg caagaacatc aacaccgatg 180
aggccgacgg ctattctgcc ggtacccagc ctgtcatcct gaacaccg 228

<210> 19627
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-007-Q1-K1-A9

<400> 19627

ctgtcacaca cacacacaca gacaagtggg ttccaaagcc aagtgtgtgt actagcaacc 60
agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120
aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240
aagcacaagc agcacctcgg cgaggccggc gccatcgccg ccggcgcctt cgcactctac 300
gagaagcacg aggcgaagaa ggaccagag cgcgcgaca ggcacaagat cacggaggag 360
gtcgtgcccg cggcggccgt cggcggccgg ggctacgtat tccacgagca ccacgagaag 420

<210> 19628

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B1

<400> 19628

ctccttcaact gtcgcagccg cccctttag aagcttcgag gctgctgctg ctgcgccccat 60
ggccgggggaa ggcaggacgc cgtccctcgc cgaggagtat tcaattccac cacaggaagt 120
tccagtggaa aaggcagctg aggagaagcc ctctagtggg actgagtctg aagctgctcc 180
ctcaaccaat gatgaaactc ctccatctgt agaagacaag aatggaactt ctgaagtaca 240
agatgctgct gaaaatccag aggcagaaga aactaacact gctgcagagg aaacacct 298

<210> 19629

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-B10

<400> 19629

cttgtgcaaa acaatgcata ggcaaccaga acatgtgatg atgttcttgc ttgctgagat 60
gggaacaagt ggatccctgg atgggcggca aaggttgggt atcaaaggaa gatttgcacc 120
aaaaaatttc gaagcgatac ttaggagata tatcaatgaa tatgtcatat gcaatggttg 180
caagagtccg gataccattc tttctaaaga gaacaggttg ttcttctctc gatgcgagca 240

gtgtggttca tgcaggtctg ttgctcccat caaggctgga ttcgttgccc aagtgggccc 300
 tcgtaaggct ggatcttaag ctacctacta cttgcctgaa gtcgctttcc gatgaagaca 360
 atgcanacta gtttgctggt tcacataaat cattgttgca ctttccc 407

<210> 19630
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B12

<400> 19630

gtcggttggg ttcttctgcc ccttcggttc gggttttggt tcctgaaggt cttcggggtt 60
 ccgtttcggg gg 72

<210> 19631
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B2

<400> 19631

ggcagttggt tgactgtgtg acaactttga gctatgtcat attacgaaag aaggggtgga 60
 gacaggggta gtgggcgtat tcaaggaagt ggtgggcgag gtggacatgt cctgcgtgga 120
 agatcaggat tggctccccg aggacttctt ggggttaact cccgtccatc tgcacgcact 180
 attgctaagg caaggccaaa cctgtcacta tgtttttggt catggccaag ttcttgacta 240
 aagtagaaac tgaatgggga gagcatgcct aagcttacat tatatggagg ggcaggagta 300
 tctgtgatgt ctgtgactaa tgcgttctct gtcagtattg gttggagg 348

<210> 19632
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-B5

<400> 19632

gtgacgaacc ctctattcga gaagaggccg aagcagttcg gcatcggcgg cgcgttgccg 60
cccaggaagg acctgcaccg gttcgtcaag tggcccaagg tcgtgcgtat ccagcggcag 120
cgccgcatcc tcaagcagcg cctcaaggta ccaccggcgc tcaaccagtt caccgcacc 180
ctcgacaaga acctcgctac gaaccttttt aagatgcttc tcaagtaccg gcctgaagac 240
aaggctgcc aagaaggagag gcttctgaag agggcccaag ctgagaatga agganaaact 300
gttgagtcca agaaaccaat tgttgtgaag tatggcccta accatgtgac ttacc 355

<210> 19633
<211> 348
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-B6
<400> 19633

cggacgcgtg ggctagtcca cacggcagac gccgccgccc ggggagagga gaggagggga 60
ggggagcggc tccaagggaa caggtgagat ggcaatcctg tacgcgctgg tggcgcgcgg 120
cacggtggtg ctggcggagc acagcgcggc agccaccaac gcgggcgcta tcgcgcgcca 180
ggtcctcgag cgccttcccc acggcggcgc cgacagccac gtctcctaca cgcaggaccg 240
ctacgtcttc cagccaagc gcaccgacgg catcacgng ctctgcatgg ccgacgacgc 300
cgncggaaga cggattccct tcgcattnnt ggaggatatt catggaag 348

<210> 19634
<211> 368
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-B7
<400> 19634

ggctgggctt gtgccaaagt tgaatcctct tgtgaaggag tttctcaatg ctgctggtga 60
caagcggaag gaagtctct ctaaaataga agaggatggt gctaagctca gcggttctgc 120
agccaactaa gaagctacaa gtgaatgccg aggagagcag cgatgacttg gctaaccac 180
cgaaagtaga cgagaagctt ggtgctgtcc ctcatggcct gtccaccgac tctgangttg 240

cccagagggga agccgagtct atctctagga agactctcac gagctcagcc gagaagtttg 300
 agtttcaagc tgangtttnc agactcatgg acatcatcat caacttactc tacagcaaca 360
 aggatatc 368

<210> 19635
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-C1
 <400> 19635

cgccagaacg tttgtttcct ttatctaaaa aaaggtaaaa catctagcct cagtcgtgtg 60
 gccagtgaag attcatacat cctcagcgca gtgccagggg cactctcagt atttatgttg 120
 gacgatattg cggctagtgt acatgccatt ttggagcccc atttgcttct ggaaaggtgt 180
 agtggtagtg tggtagtatg gcacaaccag tgagatatgg cttctcattg ttgctagcag 240
 atattcctga gtcctcttag acatgataat ttcacctgca ggcagtgtat ctcttgtaac 300
 taattccaat tttttattac ttttattata cattataact agttatgtca aatatg 356

<210> 19636
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-007-Q1-K1-C10
 <400> 19636

ctcctgcgct gcgcgcgtct tcacctccgc cgccgaatcc gagactctga tctcgggttc 60
 accggagcgc gcagagcacc cctgactccc ggcccgatcc gcgctctcct ctccgacgct 120
 tcagtcatgg caggaatggc acccgagggg tctcagtttg atgctaagca ctatgattct 180
 aaaatgcagg agctgctgag cactggtgag actgaggagt tcttcacttc atatgatgaa 240
 gtttttgaaa gttttgatga catgggcctt caggagaatc ttctgagagg catttatgca 300
 tatggttttg ag 312

<210> 19637
 <211> 228
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C11

<400> 19637

ccaagttcga ttggagaggg gtcgctcctc gagacaccta catcgcgaaat ctctcaagg 60

actggaagtg ggcactgaca gcgttcaagg ctacctggaa gatcgctcctg ggatcatcacc 120

ccatcagcag cgcctgcggg catgggaaca aactgagct ggaggagctg cttatgccca 180

tcctcaggac acacgggctt gacatgaact tgaatggcca tgaccact 228

<210> 19638

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-C12

<400> 19638

cttttcgagt ttagaacctc taaaatttcc cccactcgcc agtcgcagca gcacctgtag 60

ccatggacgc cagcggagcg ggtagcgggg ggaagaaggg tgcggccggg cgcaaggcaa 120

gcggccccag gaagaagtcg gtgacgcggt ccgtcaaggc cgggctgcag ttccccgtcg 180

gccggatcgg gcgctacctg aagaagggcc ggtacgcgca gcgcgtgggc actggcgccc 240

ccgtctacct cgccgncgtc ctggagtacc tcgccgccga ggttctggag ttggc 295

<210> 19639

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C2

<400> 19639

aatagacatg gctcccctat tcttgaggat aaagcggcgg cagttggaaa accaagatgt 60

tacaagtcgt ggcgcgagat cacagtcata cccatcttcc agtggttctc gagaagagtt 120

tgtggaaaga agtagagatg ctgcagcaga gctccgtcca aaacgagtga aaatccggct 180

accttctagt gccagtaggc agattgagca gcagcgcagt tcggggcagc gatttgcaag 240

ggaggacaag ttgccgcttg cattttaggg aatcacaggt actaacctct actgggcaga 300

cgaatt

306

<210> 19640
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C4

<400> 19640

cagtagttag agcgaccaat agatgagttc ctccccgtcc tttggtctcc tggctgtagc 60
agcatggctc ctagcactga gcttagcaca acatggctcc ctgcccga cgcgcggccc 120
cagggtcatc gtcgtcggcg ccggcatgtc tgggatctcg gcggcgaaga ggctgtcggg 180
ggccgggata accgacctgc tgattctgga agcgacggac cacatcggcg ggccgatgca 240
caagacgaac ttccgccgga tcaacgtcga gttaggcgcc aactgggggtg agggcgtgaa 300
cggcggcaag atgaa 315

<210> 19641
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C5

<400> 19641

gttctagatc gcgagcgccg cccttttttt ttttttttac atttattttt agtttagaaa 60
accgaagggc gacggggcga gcttaciaag ccggtgccgg tgagcaatca tgaatttacg 120
gagcacactg tagtgtgcag tgtgccccca ctgatgtcta gaacgacgac tgatgatgat 180
agatcaccca cgctgccacg cagcgacgtg actgcgacgg gtccactga tgtaccgcgc 240
agtgaattca atctttggac gttccagtgg atggattcgc gacggagatc ccgccgtcga 300
cgaacaggtt gtggccgctg atgta 325

<210> 19642
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-A7

<400> 19642

accgggtccg agccagcgcg tctcgggaga agcgaccacc actttcttca accaccacaa 60
tgaaggacga ggagacagcc cggcggcgag tacgggggtac tctcgagtac cgatagtggg 120
caaccgtcca cggcgaggg cgagtaccga gaggtacata gaaggganga gaaaggagca 180
ccaagcacca agcagcactc ttccggcgagg ccggctgccca ttccgcnnc ggcgccttcg 240
catttcttac gagaanngca cgaggcgana gaaaggaacc ccgagcactg cgcacaaggc 300
accaagatca cggganngag gtcgcttgcc gcggcgggcc gtcgggcgcc gggcggtac 360
gtatttccac gagcacccac gnagaagaag aagggaccca caag 404

<210> 19643

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C6

<400> 19643

ccgcattcca cgcgcactcc gctgcctcac tccgagactc cgcgcgtgct tccaacttcc 60
gttgcgcacg agcgaaacat ccggagctag caaggaggga agaggaggag gaggaagcga 120
tgccgggggg cggggataag gtggactacg tcttcaaagt ggtgctcatc ggcgactccg 180
ctgtcggcaa gtcgcagatc cttgcgcgct tcgcccga cagatttagc ctcgactcga 240
aggccaccat tggggtcgag ttccagactc ggactctcgt catcgaacac aagtcctga 300
aggcgagat ctgggaca 318

<210> 19644

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-C7

<400> 19644

ggaccgacca gagtaccgga cacacagcga ggtggaggaa gaaggaagca agaggaggga 60
ccgaggaggc ctaggccta gggtagtccc gtcgggtccc ctgcggcgca agtccggccg 120

gcgggcgggc tgactgcttg gcgtcggttag ggggcgacgg cgatctatat ctgtcgatgg 180
gctactggtg ggaccgcgtc gtgctgccgg tgcggcgggc ctggctcggc gtcgcgtccc 240
gcttcggagt tcgccagacc ggtacggcgc gagggcgagg ctcggcgttc atcggcggtt 300
tccgtacaat cttccgtc 318

<210> 19645

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-G3

<400> 19645

cgggtggggtg cgccttcaac cacgcggtgc tggacggcac ctccacgtgg cacttcatgt 60
cctcatgggc cgagctctgc cgcggcgtag cctgtctgct gcagcccatc cacgaccggt 120
ccctgtcccg ctccgtgcgc gtgcggctgg agctgccggc gtccgccgag gccacgaga 180
agacggaccc gaacggggccg aagaaggcgc tgggtggcccg cgtcttctcg ttcccgagc 240
ccaccgtggc gcgcatcaag gccgcggcca acgcgggcgt gccgtcgggc gcaaagccct 300
tcttcacgtt ccagtccttg ggggcgcaca tctgtgcgcg ccgtctccgc g 351

<210> 19646

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-G4

<400> 19646

gccccgttcc gaccttgccc ctgcggtctc ccgagtcctc aagcatcccc ttccaaaacc 60
ctcggcgcg cggggtcacc cttgcttccg cacgctatcg cccgggacca gccatctatg 120
gcggcgtccc tgctcctccg cgccgtgcgc cgaagggagc ttgcgtcccc tctcgatcc 180
ctgggtgcca gcatacagtc aacatgtgtt gccaacatat gctcaaaatg ggaaggttt 240
gcaagacctt tcagcgcaaa agctgctgga aatgaggtta ttgggattga ttctggggac 300
aacgaactca tgtgtttctg ttatggacgg aaagaacca caagttattg agaatgctga 360
aggtgcgaga acaacaccat ctgctgtcgc atttactcag aagggcgaaa gacttggttg 420

aactccagcc aagcgccatg cattaaccaa cccccagaat ac

462

<210> 19647

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-G5

<400> 19647

ctcagtgacg tcttgctaca tcgcaacatt ctctttctct cgctcggcgg tcagcttcat 60

aggcgngtgc cggacgccag tgtgcaacgt ggatcatgtcc acggttgtgc tcttcacctt 120

gctgctcatc acgccgctgt tcaagtacac cccgaacgcg atcctgggct cgatcatcat 180

ctctgccgtc atcagcctcg tcgactacga ggcggcgatc ctcatctgga aagtcgacaa 240

gatggacttc gtcgcctgca tgggggcctt cttcggcgtg gttatcaagt ctgtcgagat 300

aggcctcttg attgctgggt caatctcggt tgccaaaaat acttgttcaa ggtacaagac 360

ccagtactgg gctgct 376

<210> 19648

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-G8

<400> 19648

cttagaatgg agcgtgattc aattgaagac aaaatccatc atcttgaatg gtctcttaag 60

ctggatgata tctcagaaaa ccagaaggag aaattgttct ctgaacatga caatctgctg 120

aaacagagag ggcattgttc tggcttcat caagaagctc agaggcaaca tcatcagaag 180

tttcataagg tgtggggaca gctcatgaag actgggtacc aaaattccag atttgcctcat 240

caggttgaga gatttgcatt cttgtacagc agccagggtt caaacttcgg tttgtattcc 300

cctgacaaat actatcgtcc gagcgaagat tacatgcccc acgagnttga tgtgcttgng 360

ctgtangagc agcccctact gctggtcgga gttcctcggt gtaattgac catagcagga 420

taggaggggtg acatcgtagt tgccgtatta tataacagg 459

<210> 19649
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H2

 <400> 19649

 tcggacagat aggattctga tgcacaagta ttatcatctt gtctctgttc tcattttcta 60
 tcctgcaggt atattgcaga cttctttctt ggacttggca tttggtgcat catttacagt 120
 tctcttgata ttgtctatga tacgaatttc gtaaataatac tctcttggac atgttgtgca 180
 tcagtttatg aactacttta ctgatcatcg tgttactaag actcttattg tcaaccacta 240
 ttcactctta ctgtgctgag ctcttcctaa ttgtacatca tccagattac atgactgagc 300
 acttgtccct ttagccagaa ttttcaactt agcgataggt cataccatag 350

<210> 19650
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H3

 <400> 19650

 tcggagagcc atggagaaga aggcacacaa gctgatgatg caaaccaaaa tcaatgaaac 60
 caaggatgtc atgaagggga gggctaata gcttgacaaa atgaggatgg aaagaggcaa 120
 acttgacaaa ggaggatact catcaatatac tgggtccacgc gtgattgaaa aaactttcag 180
 tgacatgagc atcagtgggt ctggattagg tggactgagc actgacatgg actcatttgc 240
 tagcaagccc aaaggccgct catctacagc agctactgca cctggtaaag gttttggtat 300
 gaaattagc aagacacaga agacaaatca attccttgaa tctttgaaaa gctgaaggaa 360
 aaagtcattt tgggaggatg tac 383

<210> 19651
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H4

<400> 19651

tccatctacc tgctccttcg actccttctt gatccagcca agccagggat cgccatgtcg 60
gactcggagg ggcaccacgt cgaatcgaag gccgacgccg gagcgtccaa gacctacccg 120
cagcaggctg gcaccgtccg taagaacggc ttcacgtca tcaagaaccg cccttgcaag 180
gttgtggagg tttctacctc aaagactggc aagcatggc atgccaaatg ccactttgtt 240
gccatagaca tattcaacgg gaaaaagctc gaagatattg gtccttcgtc acacaactgt 300
gatattccgc atgtgaaccg tactgagtac cagctgattg atatatcaga ggatggattt 360
gtgagccttc ttacttcaga tggcaacact aacgatgac ttaaaactccc aactgatgag 420
actcttgtgg ccagatcaa ggaagggttc gaaagcggca aggatc 466

<210> 19652

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-H5

<400> 19652

gtggatctgg catggatctc aggagcaaag caaggaccct ctccggcccc gtgaccgatc 60
ccaggggggt gcccaagtgg aactacgacg gctccagcac gggccaggcc ccggcgagg 120
acagcgaggt catcttgtac ccgaggcca tcttcaagga ccattcagg aggggcaaca 180
acatccttgt gatgtgcgat tgctacaccc cagccggcga gccaatcccc accaacaaga 240
agtacaacgc c 251

<210> 19653

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-H8

<400> 19653

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cctgaggaac ctcaagttta tgcagcgagg cgcggtgagg cagaaggccg aggagaaggc 120
cgagggtggag gtacaggagg aggaggtggc gatggcgagg agtggaggct tcgcctcgta 180

cgcgcatgtc gttaggaagt gcatagttat catggagggt aatcctcatc caggagctat 240
aaagggtcgg atgtctttcc aaaatttcaa tccatgtatc gataaactaa atgaagaggc 300
aagaggtgac cagcacacag aatcagctta cccagtaac tgtgaccaag acaatgcaaa 360
ctccagcata gggaatgaag ttccagcatc aagatgtaga gattttggca ttcccagttc 420
aaaaagcata tctctaaatg aa 442

<210> 19654
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-A10

<400> 19654

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gggattctga tgcggaagat aatgattgtg gacggccaaa tgataagatc ccagatactt 120
catcagcaga tgcaagaaaa ggaagggaca ttcaaggaat accctgngag cagataaaca 180
taacccgtaa aaaatacaga cagtccagat tagaacagta canaaattat gagaatgtac 240
ctaactctgg agaagaagct atgaaagatt gcaaaccaac agagaaaggt gggatatact 300
atgagtntag acgaaatact agatcgnta aatcaactat tctacattnt cagcttagaa 360
attttgatat ggcaacg 377

<210> 19655
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-007-Q1-K1-A11

<400> 19655

attcatcaga ttcagatcag atcgtagcag ccaaggattc cgcgctccgg gggtgccatg 60
aaggtgaagc ggctctctcc ctgccttctc ctccctcgct tctttgccac cgcggcgtag 120
gcggcgtag cgctggcgct gcgcggcgcg gccgtcgtca ggggcgcgga cgccccgtcg 180
cagtcggagt tggagtcgga cccggagaac cagtgcgtgt acacgggtgta cgtgcggacg 240

gngtccatct ggaagggcgg cacggactcg accatcgggc tgacgctgct gggccccgac 300
 agcacgggca tccggatccg ggacctgacg acgtggggcg gcctcatggg cgccggccac 360
 gactac 366

<210> 19656
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-A12

<400> 19656

caagaagaga gccgatcgac cgagagctag cacgcgatgg cgaggtcttc caaaatgatg 60
 gtggcggcag ctctgctgga gctgnccgtg gccgtgtcga ccgccgaggc gaggaacatc 120
 aagacgacga cggagaagaa ggacgacgcy gtggtgcagc cgcagacctt cccgcccttc 180
 gaccgcctcg gcggcggcgc gtccccggcg ttcggcggcc taccggcgcg cagcattcct 240
 ggcagcagca ttccccgggtt cagcatgccc ggcagcggca gcagcctttc cgggttcagc 300
 ttgccccgca gcggcaacat gccctcttc gggcggcggt ccccgggctt taacggcttc 360
 ggcgggatgc ccgggtcccc caccg 385

<210> 19657
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-A2

<400> 19657

gtccccgaatt ggcagcgcag agagccagag gatgcgttaa tgttactcta ctctatata 60
 gcagcggcac tattggcctc ctttccccac ttccacttcg ctctgtctc ccatgcgccg 120
 gattaccact gaccattca cagtcacagt agtacagagc ggcagagtgg agaagtagac 180
 tctaagtgag atggcggcggc tgggtggcggc ggtggaggca ggggtggtgg cgggtggcaag 240
 cgggagggga tgcagcaacc ggctggtgcg gggcctgtac 280

<210> 19658
 <211> 341

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-A3

<400> 19658

caggagtctg cttccgttcc attgcatccc agtcccagcc aaagcaggat gccgcacgcc 60
 aagaggggact cggaggtgac gagcctggcg ccgctcgtcgc ctccgcggtc gcctccacgg 120
 acccgcgggcg ccgcttacta cgtgcagagc ccgctccgcg actcgcacga cggcgagacg 180
 atcaaggcgg ccacgtctgt gcactccacc cccgcgctga gcccctatggc gtcgccgcgc 240
 cactcgcaact cccactccca ctgctccatg ggcagggact cctnctncag ccgattctcg 300
 ggccacggnc acaacaagcg caaggccgac aagggcggca g 341

<210> 19659
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-A4

<400> 19659

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 cgatagacca agatgacggc gcaggctgcg gaggagctcg ccgccagat cgagcagcag 120
 aagctcgagg agcagaagac cgaggcagaa gaggttggtg tggaggagga tgacgaggat 180
 gatgaggatg acgatgatga tgacaaggat gatgatgaac tggatnggac agaaagggat 240
 gggagtggca agtcgaagca aagcaggagt gagaagaaga gccgcagggg catgctgaag 300
 ctnggcatga agcccatcac tgggtgcagc cgggtcactg tgaagaaaag caagaata 358

<210> 19660
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-G2

<400> 19660

tcttgccttt cgcaacttgc tctatctctc actctccacg ggacttcatg tacactttcc 60

taactccagt gtccaacgtc atcatatata cagatgtact cataaccttg ctgctcatca 120
ctccactatt caagtacacc ccgaactcta tctgtactc tatcatcatc tctgccgata 180
taagcctcat ccactactag acggcgatcc tcatctggaa agtcgacaat atagacttta 240
tctcctgcat gttggcctcc ttttacgtta ttttcaactc tatcgatata ggcctcttga 300
atactccgtc aatcttgttt cccaaaatac tttttcaaat aacaaaaacc attac 355

<210> 19661
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-D8

<400> 19661
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ggaggctgag agcgacttgg agtctgagga agtcctggat caatcccttg ccattgttgc 120
caagaatgaa ggtttggaca aggacacaac tacaaaactc acaatttaca ctgtaggtgg 180
tgttttgaag aatctgacag agggcccctt gagtgttatg gataagcaca tatatgcagg 240
acacactgtc aaaccatttc ccagcctgat tgaagctgga aagactgggt gtttcatcat 300
ctcaaataata tttgctaaag gtgttgaggc tggagtggtg tacaccggca acaacaaaaa 360
taaagttcca tgtgcatggc tactttgctt catcgaaaac aaggctaacg tgaggattta 420
tggagagtgt ggaaacaaaa ataaattcat caatgtcgac t 461

<210> 19662
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-006-Q1-K1-E1

<400> 19662
tttacttgct cttcttgaac atgccatcgc tgctgtcaag ggtgttcagg atggatccca 60
gaactatgag gctacttat tattcccagt tcatttagaa ngaacattac atgatataac 120
taaaaccatg cttgaaaaga aggaattctt cccaacaatt actgttctcc agatatttcg 180

ccagctttgt tctggattaa agcacatgca cagttttgat ccaccatatg cgcacaatgg 240
 ggtaaacca gataatgtcc tcataacaca caggaagcag tctcatctag caattntgat 300
 ggattttgag agtgctggtc caacaagaaa gactattaga tcacaaactg aagctttgca 360
 gttacaagaa tgggcttcag agcact 386

<210> 19663
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-E2
 <400> 19663

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 agtgggcatc cgcacatctg accgactctc aaagttcaca gctccaatcc tggtgcaagc 120
 gcacagtagc ggagcaagat gcggggagga gaccggccat cggcgctcgt ccagctactc 180
 tcgctgggcc tcgtgctcct ctacttcttc acctcaggca gcaccgttgg tctcgaggag 240
 ggacagaaga cgttgtgcat cgcgaagccg tccgcgtcga acgagatcct ggcgcacaaac 300
 ctggactacg cgtgctccca ggtgagctgc gccgtgatcc aaaaaggcgg gccgtgctac 360
 taccgggaca ggcccgtgtt ccgcgccagc gtcgccatga acctctaata cgcctacagc 420
 ggcaggcacc cctggaa 437

<210> 19664
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-E6
 <400> 19664

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 gtcagtgacc atgatcatct gcaagaagaa ccgccgcgag atctgcaaata acctcttaca 120
 tgaggggggtc ttgtacgcca agaaggacta catcctggcc aagcacccca agcttgatgt 180
 gcccaacttg gaggtgatta agctcatgca gagcttcaag tcgaaggagt atgtgaggga 240
 aaccttctca tggcagtact actactggta cctcaccaac gatggcattg agcaccttcg 300

cagcttcctc aacctgccat cagaggttgt gcctaatacc ctcaagaagt cttccaagcc 360
cccgtctcgc ccctt 375

<210> 19665
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-006-Q1-K1-E7

<400> 19665

atctcgttat gtatgttcag tccccagaaa caaaggatct aacagtttca ttaacaagct 60
ctgggtgggtt gcaaaacttg gcttcagcta caataacagt ttctggcaca tcaaattgga 120
caaaagtgga gcagaagctg gttgctaaag gaaccaatag aacatcaagg cttcaaataa 180
caacgaacaa aaaaggagtt gtttggcttg atcaagtatc actcatgcct gaagacacat 240
acaagggaca tggtttccgc acagaactta tatccatgct tttggatttg aaaccacgat 300
tcttgagatt tcctggaggt tgttttgtag aagggtgactg gctaagaaat gcattcagat 360
ggagagagtc aattgggtcaa tgggaagaga ggcctggaca cttcgngat gtttggcatt 420
actggactga tgatgggctt ggatattatg agttccttca g 461

<210> 19666
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-E8

<400> 19666

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cgggtttggc gtaggtgtcg gcctcggcct cggcctcgcc gtcggcgccg ctgctctgat 120
ccaggctttt ggtccgaaaa ttgacgagga agtgggtggtt tctcagtatc aatgcaacac 180
cgaggacatt gacgagttgt ctgccgagga gctgcgcgat gcgatgagct atgtgatgca 240
caatccgatg ctgatccagg tgccggtgtt aggaacaacg aagacattct ggcgattatc 300
tgaggaagcc actaggatca gcagaaaact ttcattgata ctgcgcaacc accactcagc 360
ctgcaagtac ctogaagctc ctctgcaggt gtccaatgtc tggattggga gcactgggag 420

tgtcaagcta aggggggtca gtttactgg cagcggtttc tttag

465

<210> 19667

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F2

<400> 19667

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cgaacgggggt gaaaggcata ctgtgagacc ccccgcgtag cttgatcttc gagatggagg 120

cggcgctagt ggagcggctg gaggccgcgg tggcgcggtc cgaggccgtc gtggcctacg 180

gcgcctcgct cgcgtcggcg gcggcgcgcg acctcgacgc tcctgaggcc cggatggatc 240

cagctatcgt ggcctacgac gagttcgctc cggaggccgt cggacggctc acggctgcgg 300

ccgaaaagat cggcgggaag gtgcttgacg ccaccaaagt gctcgccgaa gcatttgccg 360

tcgacaaaga cctgctcgta caagccaagc agctccagaa accagcatca atggctgatg 420

cacatggctt ttttaagccc 440

<210> 19668

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F3

<400> 19668

acttgctctc ttgcgcttcc taggcgcttt tgcacacata gcgacggtag tgcaactccg 60

cgttcaactcg gacacacaag ctcaactgccg tctcctgac acgaaagctc actccaagcc 120

gcccctctgc tattctacaa accatctact ccaaagtaga tatcaaccgc ttgagcactg 180

aacattacag cctgtacgtt atctccattt accagcactt catg 224

<210> 19669

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F4

<400> 19669

ttccgtgtcg acccactcgt gcggctaaag tcgcagaact tcttatggag ggtgttcatt 60
acaccgttga actaaagggc aataatgtag atcttgcaga tgacgggtga gcacatgctg 120
agattattct tgggacagat gatctatggg atgagaatga tccatgggca aggtttgtga 180
tgaatgcttt gaaggcaaaa gtgttctacc gaagggatgt ccagtatatt gtcagggatg 240
ggaaagctat tataattaat gagttaaccg gccgagttga acccaagaga agatggctctg 300
atggtatcca ccaagcagta taagcaaaat aaggcctaaa aatccatact cggtaattgt 360
ggctcaaadc acatatcagt cattgcttaa gctttatcct aaactttctg ggatgacagg 420
aactgctaatac acagaagaaa aggagttttc aaagatgttc aagatg 466

<210> 19670

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F5

<400> 19670

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gatggctcgt acgaagcaga cggcccgcga gtccaccgga ggcaaggccc cgcgcaagca 120
gctcgccacc aaggcggcga ggaagtcggc gccgacgacc ggcggtgtga agaagcccca 180
caggtacagg cccggcaccg tggcgctgcy cgagatccgc aagtaccaga agagcacgga 240
gctgctcata cggaagttgc cctgtcagcy cctgggtccgt gagatcgctc aggacttcaa 300
gacggatctg 310

<210> 19671

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F6

<400> 19671

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gtcgttggat atagtcatga tggtaaccata atgactatat ccaaggatcg tgtaaagcca 120

tccccattac ctgacagctg gaagttggct gaaattttca caactggagt tgtccttggt 180
ggatatcagg caatgatgac tgtcatcttc ttttgggctg catacaagac aaactttttc 240
ccaaaaatat ttcattgtga aagccttgag aagacagctc aagatgattt ccaaaagctt 300
gcatctgctg tttacctgca agttagcacc atcagccagg ccctcatctt cgtgacaagg 360
tccctgaact ggtcatttgt cgagcg 386

<210> 19672

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F7

<400> 19672

cggacgcgtg ggcgacgcgg cagcgaggag gaagcaaagg aaaggggata tgtcgaggcc 60
gtccgacagg agcgacgcgc acctctccgc cgaggacgag gcggcgctgg aggccgaggt 120
gcgggagtag tacgacgacg cggcgccaaa gcgccacacc aagccctccc gcagcgagca 180
ctccgctcgtg tacgtcgacg cgctcgtccc ggacgtcggc ggcaactccc acccgagagct 240
ggacaagttc caagagctgg aagcacacac cgagagggtt gtgtacgatg gcgccaatgt 300
gggagatgag ttcgtggaga ctgagtacta caaggacctc ggcggcgtct gcgagcagca 360
ccacacgacc ggtacgggtt catcaagatg gacaaa 396

<210> 19673

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-F8

<400> 19673

gagaagtctt taggtggggg caaagatggg gtcgctgaag ttgcaaaagc tccttgccctc 60
gaggtacctc aagtgtggga aaggcaagggt gtggcttgac ccaaatgaag ttagtgagat 120
ctccatggca aactcccgcg agaatatcct gaagttgggt aaggatgggt ttatcatcaa 180
gaagcctcat aagatccact ctagatcccc tgcaagaagg gcacatgacg ccaagcaaat 240
gggacgccac tcaagatatg gtaagcgtaa gggtaggaag gaggctaggc taccacacaa 300

ggttctgtgg a

311

<210> 19674

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-G1

<400> 19674

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tcggcgggtca ggttcatggc cagggtgccc acgccagtgt ccaacgtggg catgtccacc 120

gttggtgctcc tgaccttgct gatcatcacg ccgctgttca agtacacccc gaacgcgatc 180

ctgggctcga tcatcatctc tgccgtcata cgcctcgctg actaccatgc ggcgatcctc 240

atctggaaaag tcgacaagat ggacttcgtc gactgcatgg gggccttctt cggcgctcgat 300

ttcaagtctg tcgagatagg cctcttgatt gctgtgtcca tctcggttgc caaaatact 359

<210> 19675

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-D7

<400> 19675

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caagatcttc ggaatgccgg aatgctgctg agattactga caagcttgga ttacactccc 120

tgcgccatcg aactgggtac atccagagca cttgtgccac aactggcgag ggtctgtatg 180

aaggcctgga ctggctgtcc agcaacattg cgagcaaggc ttgaggccta cttgaatat 240

caactgcgaa ctgactagga actccggatg tatcatggaa actcaagaca gaatcgcatg 300

tgcaatctga tagatgtctt ctaccggcac tatatatgan atactgttag atgtgtaatg 360

atggtactgt tcaacgctta ttacgtact atactgttgg atgttctttg gacctgttt 419

<210> 19676

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B6

<400> 19676

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tttggcagcg cgctttttcac caatgacaca tgctgtgttg tcctcacga gttcatcctc 120
aaggttgcta ggcaaaacaa cctgccacca cagcctttcc ttctggccct tgccactagt 180
tcgaacatcg gctctgctgc cacgccgac ggcaaccctc agaaccttgt catagctgtc 240
gagagtggga tctcatttgg ccagttcttg ctgggagttt tcccagctat gatcgttggg 300
gttctcacia acgctgctat cctccttttg tacttctgga aatacttgtc ggtggagaag 360
gatcaggagg gtgggcagcc cacaggacca gaggtgggtg ccgacgatga ggttacttcc 420
catcggttca caccggctag aatgtcacat gtttcttctc tgaat 465

<210> 19677

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-B7

<400> 19677

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atcgggtcaat cctcgccatt cttttcaagg gattgatcta aatctatctc caagagagtt 120
tcccggagaa tcacatcttg ctgaatcaca agtttcaact gatagcgtat caactccac 180
tggaagagct ggaagaacta tttcaggaag gcgtgaaata caacgggtaca ttcagagttt 240
gttcagacca agtctaccta gtagaccaga cacgtaccac aatattgcgc agaacagtgg 300
tggtgtatca aganatgaac cgaaccgctg gaactttcct ttttcatcag aagcatacac 360
atcacagaat ctgcctgatg 380

<210> 19678

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C1

<400> 19678

acgatcgagt acagtcgggt aggtaatctg gtggtacgac gactgacgac gacatggcgg 60
tcaccaggag caaggggtca tcgtcctcga gctctgcgca gcgggcagca gctgccgtcc 120
tgctcgtggc ggtgtccgta ctggagggtg gctcagcagc ggtgtgcgac atgagcaacg 180
agcagttcat gtcgtgccag cccgcagcgg tcaagacgac ggacccgacg gacgcgccgt 240
tgcaggcgtg ctgcaacgcg cttgcagcgg cggaacctaa gtgcctgtgc ggctacaaga 300
actcgacggg gatggggcgt tacaacatag accacaagcg cgccatggag ctttc 355

<210> 19679

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C2

<400> 19679

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cctagagctc tcacactttc acatctgcct ccttctctcg cgtgtccgtc ctgtcgtacc 120
gcttccctat gtcgacatat caacgaccat tcatgtcctg ccacctctt ctccaatacg 180
actgaccctt ctgccgtcc ttctcatgcy tgctgogaet ctctgacttt gtctaacctc 240
aagttcctgt tcggctacaa taactctccc tgtatgggcy tctacaacat cgaccctat 300
cgctccatgt aactttctgc caagttctgc cttatcactc 340

<210> 19680

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C3

<400> 19680

gtgtatgaat tcattaagaa aagttggggg ttctttatat tttggtattc tgattttgcc 60
attggtgcag caggttgaat atattgggtc ctgattattg tgccctcgta tggatttatt 120
gcgttcattg aaccagaaaa ttgcatcgca ctgtctacat ttgtattctt gtttaccaag 180
atatcttcaa tgggtgatat tgatgacaag agagatctca ctctgaggt acacaagatc 240

gatggagaca ttgttgagtt gaatcttcag cttaaaggag atgtactgta gagatattca 300
atgggtgata ttgatgacaa gagagatcta atcctgaggc acacaagatc gatggaaaga 360
ttgctgagtt gaatcttgag cttaaaggag acttcttaca gtctaaccat gatcac 416

<210> 19681
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-006-Q1-K1-C4
<400> 19681

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agaacgagct gctgcgaggt gcggagatgt cgtcgcagct gatcgaggag caccggtcgg 120
gcgcggaggt gcacgtcggg cagagctgt gcgagcgcaa gtcgcgcgag ttcattggtgg 180
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ggtcgacggg gtctgtgtgg ctgctggcagg ccgtcggcct gaccacacacc ttcgggtcca 300
tcggcaagca ggtgtgtgtac gacaggaag tgacggcggt cgtaggagccg gggcggatgc 360
acggtctcgc cgggggtgaaa agcaaggagc tcctcatctg ggtcaccatc 410

<210> 19682
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-006-Q1-K1-C6
<400> 19682

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tttttttttt atgtttttta gattaatttt taaatttttt ttgattttat ttattatttt 120
ttttcttttt cttattttat ttttttttaa aaacaaaaaa acaaaaaaaa aaaaaattca 180
taaaaaaaat tttctctccc aaaaaacttt ttttaaaaaa caacctaaaa aatttttaaaa 240
atatttttcc cactaaaaaa acgttaaaaa aatttttcta tatctctaac catacattta 300
aaaacataat tttttaattt taccacaaaa aaaaaatcac ctttttttaa atattatttt 360
aaaaaaattt ttattgcaaa aaaaaaaaac cccctttttt 400

<210> 19683
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C7

<400> 19683

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 atgacgatca agactatcaa ggcccctaca aacaaagctc atgggaaatt agaaagtga 180
 atgaaatacc atgttgaaaa cagggccaaa gtagctagca attcaaagag gcaaaatgct 240
 gcaaaatata atgcttcatg aggtcagtaa atacatattt ggtaattcca tgctaataca 300
 ctgatgcttt aagatgcctg agacatctat cttctttggt agttgttttc ggtgttgtca 360
 aaatctcatg tgccacaatg gatgaaagaa caacatg 397

<210> 19684
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-C8

<400> 19684

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 gccggttaaa ctttccccac ttgttgctgg ccttcgaatc tgcggtttgt tcgagcttgt 120
 aaggatctct ctttcttcac tctagcaagg aagcgaagaa cagggaagca aggacatgga 180
 tgctttcagt gcagtgatgg acaaggtaaa gagccacca gaaatgatgg agaaggtcag 240
 tgcagtgatg gacaaggatga agaagagcca cccagaagcg gtggaaaagg tcaaggacga 300
 ggtgaagatc cttgctgatg ctctccatct gcgtagacat ggatccaaag ataaagaacc 360
 tgagtctgaa gagaaggccg tagaaggcga ggcagcgcat agcgctgagg aggaggaagg 420
 tacctctgct gacaagactg cagaacctaa tgtgttgga 459

<210> 19685
 <211> 395

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-006-Q1-K1-D1
 <400> 19685

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 tgttcaggaa tgaaccatta gatttcctgt gctaaaatga ggattgatca taagactaat 120
 gacgatcaag actatcaagg cccctacaaa caaagctcat gggaaattag aaagtgaaat 180
 gaaataccat gttgaaaaca gggccaaagt agctagcaat tcaaagaggc aaaatgctgc 240
 aaaatataat gcttcatgag gtcagtaa atcatatttg taattccatg ctaatacact 300
 gatgctttaa gatgcctgag acatctatct tctttgntag ttgttttcgg tgttgtcaaa 360
 atctcangtg ccacaatgga tgaaagaaca acatg 395

<210> 19686
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-D3
 <400> 19686

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 gatggtgata tgggtgaagc tgaacctgag gaggaaaatg agcccagctt aaacatcaag 120
 cctgattatc ctctctctcc tgaagaacct aaaggaagca gggagcttct ctgcagggtt 180
 gcgattcggc taccgaacaa tcaaaggatc caaagaaact tccttcacac agatcctatc 240
 aagctcctgt ggtcattctg cgctcctcag gttgaggacg gcgagaagaa ggctttccac 300
 ttcgtacagg ccattcctgg agcatcccag aagctgcagt ttggaagcga cctaactttc 360
 aaggaagcgg tgcttgccaa ctcgatgac aacctcttgt gggactgata cgct 414

<210> 19687
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-D4

<400> 19687

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ggggggggctc tggggcgccc tgctcttcgt ggcggggccgc ggcgcgggac cactcgcgt 120

ggcgacgcgt cgacctccgc gactgggtcg ccctcacctc cggccggcgc gccgcgagac 180

ctggacactc cagctctcgc gtatccgttc acgcgcgcgt cgtcggcatc ctggaggctg 240

ccgccaaagt ggccgaaggc cggatcgagg ccgtgttgct ccccgagttt gctgatgaag 300

accatctctt gttcctcgt gagagggtgcc caaacctgca ctatttcagc cttactagca 360

cctgtatgac ttacgatcag ttctgcaagg cgaaagggtg acttcaatcg cttaaaggca 420

tggcaatgga tgagagtctg actaactatg atgt 454

<210> 19688

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-D5

<400> 19688

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tgttcaggaa tcatccatta gatttgctgg gctaaaatga tgattgatca taataactaat 120

gactatcaat actatcaaag ccctacaaa caaagctcat gggaaattac aaagtgaaat 180

taaataccat gttgaaaaca ggtccaaaat atctagcaat tcaaagaagc aaaatgctgc 240

aaaatataat gttcatgat gtcaataaat acatatttgg taattccatg ctaatacact 300

gatgcttta 309

<210> 19689

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B4

<400> 19689

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cctggagctt ctggccagtc gtggcctctc cctcgtgcgc gcctgctggt cttggccctt 120

gcactggcga cgaccgccgc ggtgggcagc gcgcagctgt cgtcggagag ctactacgac 180
gcgtcctgcc ccgccgtect tctcaccatc aggaccgccg tctcgacggc cgtgctgctg 240
gagccccgca tgggggcctc cttctccgc ctccacttcc acgactgttt cgtgcatggc 300
tgcgacgct cgggtgctgt agacgacact gcgagcttca ccggcgagaa gggggcgggg 360
ccgaacggg tgctgctccg gggcttcgac gtgatcgaca acatcaagat gctgctggag 420
ctgctgtgcc cgc 433

<210> 19690
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-005-Q1-K1-G6

<400> 19690
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caagtaagca actgcagtga cgttggtttc ggctgcaccc aaactacatg actgaagaaa 120
cttgtggcct gtgtaacgcg aatccatcag aacgccaaag ttatggcttc tggttgtggc 180
aaattatggt tcctccctgt tcggttgagt ggttgcatc tggaggtatc ttgttctgga 240
ctcaggctaa tgattgtgcg tgcgactgtt tcagagtcac ttcaaagggt atccactttc 300
gttggagttg atttcataac taaaaaaaaa aatttaataa tataaatcat aaaaaaaaaa 360
ggcgg 365

<210> 19691
<211> 229
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-005-Q1-K1-G7

<400> 19691
agcacgcctg agctgtggca tataccatgc ttgattgaca tgcaggaaat ggcagttact 60
ctggggtatg tctcctgtgt catcagatta gacagctcac tcagtgcatt gcgataccac 120
ttatgaatac tgcactctgt gctcggacta caattcacac tgctaacggt ggactactct 180
actgctctcc cagaactgcg aagacgctat tggctagggc tataagtac 229

<210> 19692
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-G8

 <400> 19692

 gtgaaagaag gacgaggatc agcaagagggc ttaagaagct tcaagacctc gtgccgaaca 60
 tgtgcaagca tacgaatagc tcggacatgt tggaccttgc tgtggattac atcaaagagc 120
 tcaaggacca agtcgagaag cttaaaccacg accaagcaaa ctgctgttgc ctaggcaaca 180
 agagctgctg ctgatgcttg agaggcagac tgaagaaggt ttttatgccg taacaatgtg 240
 actgttaaac cagagctggt gctttaggag accatgccgt 280

<210> 19693
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-H1

 <400> 19693

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 ttattccaac atatgcgact ccagtgcaat tattaagggc ctttcgataa cacctcataa 120
 atattgcatt actcaactta caatctaaat tacaaactat aatcctatac taactcatca 180
 atttcaatth ttaacaaaa ttatccaccc aaatgttcat tataacacat tttaaatttg 240
 ctttgatata ttaaacattt catagatcc 269

<210> 19694
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-H3

 <400> 19694

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 tgggagagggc gtggccgtcg atcgccaagg acgtcaccga gttgatcggg aacactccgc 120

tggtgtacct caacaagggt accgatgggt gcgtcgcccg cgtcgacgcc aagctcgagt 180
ccatggagcc ctgctccagc gtcaaggata ggattggcta cagcatgata acggacgcag 240
aggagaaagg gctgattact tcaagcgtga gtgttctgat tgaaccaact agcggcaaca 300
caggcattgg actggccttt at 322

<210> 19695
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-H4

<400> 19695

gtcacgcact cgtcgctcta gtatgttttg cttcgctgtt ctcgcgccgt gtcgggggac 60
tttactggta tctgttgact gcagtctacg aaccgaacgt gggtttaaat cttttttgaa 120
ctcatcccaa ctaacacagt aactctaaag caatcggaat ggataccact cctagtcatc 180
agtgtacttt tactacattc ggatgggact gacagcattc ccacac 226

<210> 19696
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-H5

<400> 19696

gagagaagtc agctgaccct gatatccagt taatatgtga tgattccaac atattgagag 60
tggagtgttc ttatcaaggc cccttctgaa acaccttatg aagggtggtg gtttcaactt 120
gcgttcgcaa ttccagagca gtatcctcta ctgcctctc aagttcgatt ttaacccaaa 180
atccccacc caaatgtgca tttcaagaca ggtgaaattt gtcttgatat attgaagaat 240
gcatggagcc ctgcatggac ccttcagtct gttttagtag cgataattgc tctgatggcc 300
catcctgaac cagacagccc acttaactgt gattcaggca atctcctgcg gtcgggtgac 360
atcagaggct atcaatcaat ggcccgcatt ta 392

<210> 19697
<211> 432
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-H7

<400> 19697

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tcctggctct ggctctgctg gccagcgcag cgtcggcaga ctctgggctg caccgagaagt 120

tcacgacgga gggcaacgtg cgcgcggact acaacgcgca tgggcagcaa gtgacgtctc 180

tgatcctgac gcagcagttc ggcgggcgct tcagctcgcg gcatatgtac ctgtacgggg 240

agttcagcat ccagatgagg ctgatactcg gcaactgcgc gggcaccgtg acctncttct 300

acctgtcgtc aggcgacgag gcccgggcac gacgagatcg acatggagtt catgggcaac 360

gccagcgngc agcccatggt gctgaacacc aacgtgtggg ccaacggcga actgcaagaa 420

ggagcaccag tt 432

<210> 19698

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-H8

<400> 19698

ctcacgcacc tccgtccgtc gtctagtatg cttcttgcct tccgcctgct tcctccgccg 60

cccgcctccg gggcgggccg ttcctgctca tcctctctga tctgcagggt ctgacgaacc 120

gaaccgttgg ggtttcaaat cttcttttgc agaactccgat cccaactcaa aacacagaga 180

actctgaaag ctaatcgga atggataacc acatccatag tcaggcagct gctaacctta 240

ctaccagttc 250

<210> 19699

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-A2

<400> 19699

aacgcagaag ctgcactgca tacatcgagc taactatctg cagcgatgtc tcgctcctgc 60
 tgcggcgccg tgggggtgct tctcgctgtc gcccgacag ccagcgccac cgcgccggca 120
 tggctgcacg aggaggccat ggccacgggc ccgctggctg cagaggggtgc aagggtggcg 180
 ccctccgct ccacctgggc tgccgacaag gcgtcgccgg cgaggccgag cggcggcatg 240
 gccacgcatg gcgacgacca gagctcgctg ggcggcagtg gcagcagcgg tgagcacggc 300
 aaggaggatg gcgagaagca gggcaagagc tgcctcacca aggangagtg ccacaagaag 360
 aagatgatct gcggcaaggg gctgcacgct ctcggcgcac agc 403

<210> 19700

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A3

<400> 19700

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 agatttgagg tcagccgtaa ggggagcaat ggtggttaaca agacatttac atgcatgaat 120
 gaactaattt ctgattacga gactgggtgct ttgcatcctg ccgatgtcaa acctgcactg 180
 gcaaaagcaa taaatgaaat tttgcagcct gttcgtgatc atttcaacaa caacaacgaa 240
 gccaaagtgc ttcttaacac tgtcaagaag tacagagtaa ccaattgagg agtggaagct 300
 gtccatcttt agggcatggt tacattaggg tggatatcgc cgtttgaaat tcttgatgac 360
 tattctgtta ctagttgcat aggtagctca aaagtttcat gtttctagat atataaaaag 420
 aatactttac ttgttgacta cttgatgtgc 450

<210> 19701

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A4

<400> 19701

atattaaata catttatttc cattgatttg taatatttca tgtcatgcgt aatgagaaca 60
 attgtcgtgg cattacattt acatgcatga atgaactaat ttctgattac tagactgtta 120

ctttgcatte taccaatgtc aaacctgcac tgccaaaagc attaaataat atttttcact 180
ctcttcataa tcatttcaac tacatcatct atacctaagt tcttcttaac actactaata 240
attacataat aaccaattga ctacttgaac ctttccatct ttaaggcatg tttacattat 300
ggatgaatgc gtcacttcaa attcttgtat actattctga tacta 345

<210> 19702

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A5

<400> 19702

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gtagtcggcc taatacagct gcacagctga gactccacta cttctaagat gacgactgct 120
tgccagcacc aaatgatgaa ctctatgata agtgggtcct gcaatttacc agcttcatga 180
tcatccacaa tcctgggtcga ctacgacata catctactag ttgaaaacca ttagtgtact 240
catcatgtgt aattttgtgt tacgactctg ggaaaatcat aacgacaacg tttataaaat 300
taaa 304

<210> 19703

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-A6

<400> 19703

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caaggccagc ggcaccgcac caccacgccc gtcggcgaca tgaatccgcc cgcagcagcc 120
gcgtccaccg gcgcaggagg ccacgcccgc gcgcctgcgg cagcccggga gtacgtgcac 180
taccgcagggc tctcgccaga ggaggtggcc ccgccccgc cccgcctta tcacgccgtc 240
accgcccgcg cgtccgccta cggaggcaac ccctacatct actccccgc cggcggcgcc 300
gccacctccc cgaagaatac gatggactcc gtgaaggacg tgctcggcaa gatggggaag 360
aggtttgccg aggcggcccc caagaccgag accatcaccc gcaatttctg gcagcacttg 420

aaaactggac caagcattac tgatgcagca atgagcagga tctcac

466

<210> 19704

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-006-Q1-K1-A7

<400> 19704

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ngcggggcaa gggcgggaag ggtctgggca aaggcggcgc caagcgtcac cgcaaggttc 120

tccgcgacaa catccagggc atcacgaagc cggcgatccg gaggctggcg aggaggggcy 180

gcgtgaagcg catctcgggg ctcacttacg aggagacccg cggcgtgctc aagatcttcc 240

tcgagaacgt catccgcgac gccgtcacct acacggagca cgcccggcgc aagaccgtca 300

ccgtcatgga cgtcgtctac gccctcaaag cgccaggtc 339

<210> 19705

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B1

<400> 19705

ctaatactga cattttgctg gtgcgtatgg tactttgctt cgtggaacat gaatttcacg 60

tgttctgacg gtattacaat gccttatgtg acactcttct atcttttact aaacatccga 120

atctatcctt cgagtatatt taatcgcat aattctatct gaaatgtatt tcgcaacaat 180

gtccaattta ctcgaa 196

<210> 19706

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-B2

<400> 19706

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aggtttcttg tggaatggt ccacctcaat atgactctaa tgtaccttca tgcttctagc 120
 ctgctcgtag ttcaactcat atgccatttt gtcaaactga agaagcccat aaagagatct 180
 gcgctgctac aattattcat acagcattta tagctttcct ggcaaggaga gcccgccgag 240
 ctttaaaagg gttgggttagg cttcaagccc ttgtaagagg tcatatagta agaaagcgag 300
 cagctactac actccgttgt atgcaagctt ttgtcacggt tcatgcccgt gttatagcaa 360
 agcgaattca catggctttg gaaaaccaga ctgatcggca aaatacttca ccagagcaca 420
 cgatc 425

<210> 19707
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-B3
 <400> 19707

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 agagtgagca ggctaagaac ttgcaggagc agcatgaatg gcggcgactc gtcgcctatc 120
 ttgctttctc ctgcgcgtgc ttctggcagg agtggccgct gccaccgcct tcgacgaagc 180
 ggctgctgcc ggcttcgggc ttggccacgg ctgcgctttc gcgcgcaagc atggacgtgc 240
 tgccgatgag atgccccagc cggagccaca acctaaaact aagccggagc cccatatgca 300
 gacactgccc cagccagaac ctaaaccgaa acctatgcca catccagagc caaagcctg 359

<210> 19708
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-005-Q1-K1-G5
 <400> 19708

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 gcgtctgcgg cggcgctcgg cttccggcga gccaccgcg tcaggtttcg acgttcaaca 120
 agcggagtcc tgggaatgca tataaccaga accccacctt ggcaactgggt aatatctgcc 180
 actctcttat gctcgccagt ccatcataaa cgcagtcgct ggttgcatct gatgcaagaa 240

catcctgttc ctacagacact aactggacat agccctgatt tcgttcacgc tatcttggtg 300
 cactctcata atctcgttcc ttctcctact gactggggcc gacctgaacg accagagagg 360
 cgaggagaac atgtacttcg gtagcttctg cta 393

<210> 19709

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-D2

<400> 19709

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 agtgggaggc atcacggcag gattgtataa tacattgggc caagttgcc tcatctatgc 120
 ctcttctgag tcagattgag acagacggtg gcaagtctct ggactttagc aactatcctt 180
 acatatttat gagatggaaa gaacagtatt ttgtcaatgt tggagttgac tgtggggtta 240
 ccatcgctgg ttctactac gtctgctttt cttgtagcga tggctccatc agtggatctt 300
 attatgatcc aaatagcaat ccatttcaga agct 334

<210> 19710

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-D3

<400> 19710

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 cagctagcaa ctctttctct cctgcaataa tgaccgctgg ctctctctcc tcccagccgc 120
 agctggtcgc ggccggcgcg gtctggcag cggcgctgct gctgctggcg gcgggggccg 180
 ggacggcgtc tggggcggtg agctgcggcg aggtgacgtc gtctgtggcg ccgtgcctcg 240
 ggtacgcgat gggcagcgcg gcgtcgccct ccgtggcggtg ctgcagcggg gtgcgctcgc 300
 tcaacagccg cgcgtcgtct gcggcgacc ggcaggccac ctgcaac 347

<210> 19711

<211> 199

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-D4

<400> 19711

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 ggcgaagctg cggtctcatg gacgtcgggt cactagcccc aaaacggcag gacgtatcac 120
 tgtcacggtc cctcctgctc gagcgcagca agagcagcac gtgaaggacg atgaggccga 180
 ggctgcgagc gtgcacccg 199

<210> 19712
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-D5

<400> 19712

cacggacgcg cgcttcaacc gcgtgttcaa cgagggcatg aagaaccact cggtgatcat 60
 caccaagaag cggtctggacg tctacacggg ctctcagggc gtgtcgacgc tgggtggacgt 120
 gggcgggcgc gtggggcgcca cgctgcacgc catcacgtgc cgccaccgc acatctccgg 180
 ggtcaacttc gacctgccgc acgtcatctc cgaggcgccg ccgttccccg gcgtgcgcca 240
 cgtggggcggg gacatgttcg cgttcgtgcc cgtcggcgac gccatcctca tgaagtggat 300
 cctccacgac tggagcgacg cgactgcgc cacgctgctc aagaactgct acgacgcgct 360
 gccggaaaat ggcaaggcca tcgtcgtcga gtgcgtgctg ccggtcaaca cggagg 416

<210> 19713
 <211> 337
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-005-Q1-K1-D6

<400> 19713

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 ccggccgagc gagagcgagg gagaggcatg gctgctccga agctcgcgac gctggcgctg 120

gccgtgctcc tggcggcgac cgtggtggct cccccggccg cggcgcgcg gcgatgtcg 180
 tgttccaccg tgtacagcac gctgatgccg tgcttgccgt tcgtccagat gggcggggcc 240
 atgccgnccc agccgtgctg cggcggcatc cgcagcctgc tgcagcaggc caacaacacc 300
 cncgaccggc gcaccatctg cggctgcctc aagaacg 337

<210> 19714

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-D8

<400> 19714

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 atgagtgtgt aaaagacact ctgctggacc tctgttgac ccttggtatt ccaactccga 120
 aagcaaacat tagaaaggaa gatatttgtt caaagctgtt ggacttcatt gctgaacctc 180
 actctgcagc tgaatcttgg ggctctgatg atcagggatc aaattctaaa aaacgcaaga 240
 gaggaggtga aagtgcaagt aagacgcctg atggcacacc tagtaggtcg aggaagaaat 300
 ttgtcgatga cggctacttct agtaaaaggc agaataaagc gctccagtat gatactgang 360
 aagatgaatc catgaagtct gacagtgatg aaaacataga tgaagattca gatgaagctg 420
 ctgacaaaaca ggaagttgac tatggatct 449

<210> 19715

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E2

<400> 19715

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 aagggacctc ggttaaagaa tcaaaaccat cagctggtga agatgattcg tcaaaaatat 120
 gttataaatg caaaaaggct ggacatcttt ctgcgattg cccagaaagc acatctgagg 180
 tggaccgaaa tgatggcagt attagtagaa gcagagacga tacgggtacc aatactgctc 240
 ctgctggtgg caacagtcct atggacgaag acgatgttca agaaattggt gatgaaaaga 300

aagaaaagtt gattgacttg gactacttaa ctggaaaccc cactaccaa tgatattttg 360
ctatatgctg tacctgtgtg tgccc 385

<210> 19716
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E3

<400> 19716

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cccatcacca acgcccacgt gccttagccc gtaagcataa ctcaaatca tccataaaca 120
aaccataatc gattatacca tgaccaaca tgacatcttc tcgcactcag actaagtcac 180
ggacatacgc gctcccatca ttatcgtgaa tgcagctcct gacaggcaca tagttataga 240
cttatcaatc aacactgtag gtaacatcat caagcata 278

<210> 19717
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E4

<400> 19717

cactcccata cggtttttacg attttgccac gctgcaccaa ttccactgtc actttgacca 60
ctttttctgc gtctcttcgt cttataccaa cttcaccaac accaccacca ccactctttc 120
tgcttcccca tctcttttcc ccattcctca tcctatatcc gtgtacagct ccactctttaa 180
ctcttactac tgttctactc attgcattct ctttaagtac cacttttctc acgctccggt 240
ct 242

<210> 19718
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E5

<400> 19718

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tcagggatga gccaggaaat ctatgtccaa cttactccag acgacaaaga aatttttagat 120
tatatcatca cagaagctga cagccacttg cactctgact aagtccctga tcaatccgtt 180
gccattatta ccgagaatga aggtcttgac aaggacacag ctgcagaact cacaatctac 240
actgtaggta acgttttcaa gaatc 265

<210> 19719

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E6

<400> 19719

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ctggtattgt cctggtggaa atgtcagtgc agcctctttt tgcttgtctt gttttgcaat 120
tgtttggtg gcctccactt tttgtccgat gtccggggcg aacagggatt catcatcata 180
tcgtgcgaat cttgctctgg atgcacaaga aaattctctc ttctactgct ctttcccccc 240
ccccacaagg cctattaaca aacacgatgc ctaagctcat gatcaaaatc tgatgggcat 300
gcctgacctt tctgcccgtt catgtcgtga tccaccttgc aaaat 345

<210> 19720

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-E8

<400> 19720

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ggcgaccacc ggcacggcgg cgcggcggcg gagggccaacg gcaccaaacac caccaccacc 120
acgttggtg ctgccccggc gccgttcccc gggccgcagc cgatggccgt gtacagctcc 180
atctggaacg cggacgactg ggcgacgcag ggcgggcgcg tgaagacgga ctggtcgcac 240
gcgccgttcg aggccacgtt ccgggaggtg cgcgtggacg ggtgcgcctg ggcgggcaac 300
gccacggacg gcgacgccgc ggaggcgcgc cgggtgcagc agtcctcgtg gtgcaaggag 360

gcccgtact ggtggaagga gaaggagatg tcggagctga gcgtgcacca gagccaccag 420
ctcgtgtggg cgcgcgcgca 440

<210> 19721
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-F1

<400> 19721

atagctggaa gtgaatttat ggagagcgtt ttcttccatg ttaaatacatg gttaccggca 60
agagctattg gggtagagtg tttggtatca aaaggaaaca ttgatccaag tggagaaatc 120
atggttttgg atagattctg cccgtggaaa cttcatttat ttgagcttga agaggagctg 180
aagactgata ctctgaccaa gtatgtgctg tatcaggatg agaggatcaa gagttgtcga 240
gtccaagcag tcgcagttgc tcctgacagg ttcgagagcc taaaggctct tgcagataag 300
tcgaggggca tga 313

<210> 19722
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-F2

<400> 19722

ctatgaagca ccgtgtatct atcatcactt ttgcaaccac cacaagaagg acgaggagca 60
gccggccggc tagtacgggt actccgagac cgaggtggtc accgccaccg gcgagggcga 120
gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc tcggcgaggc 180
cggcgccatc gccgacggcg ccttcgcaact ctacgagaag cacgaggcga agaaggaccc 240
cgagcacgcy cacaggcaca agatcacgga agaggctcgt gccgcagcgg ccgtcggcgc 300
cggcggctac gtattccacg agcaccacga gaagaagaag gaccacaagg a 351

<210> 19723
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-F4

<400> 19723

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cgctggcggt ctgtacgggg cacttcatcg tgcagcggcc caccaccatg ttctacgtgt 120
acctggccat cgtgctgggc acgctgctga tcctggccgt cctggagggtg aagtgggcgg 180
gcgtgaccgt gttcgagtgg ttccggaacg ggcagttctg gatgacggcc agctgctccg 240
cgtacctggc cgccgtgtgc caagtgtggt tgaagggtgg ggtccggcgg 290

<210> 19724

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-G1

<400> 19724

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gcatcttgcg agatctgaga ggttcaggta tgacagagca acagagacag aaagtcttga 120
ttcatgtggt agaagaagct ggatacacia aagattcaca ttttacactc ccagacttta 180
tgaagattat tggcaattct gagctcaaga tggagggttga agttcctatt gactaanaac 240
ctaacaagca tcatctagtt gcttcaagcc tgtatcttca tttgtgttaa attaagtaga 300
tggtatattt atatncttgc aactcaaadc atgatcagag atgtaattaa ggaaacatat 360
gtacctgcta tttggagggt tagttggctc gcacttatac tcaacgc 407

<210> 19725

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C8

<400> 19725

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atgggataag acattggtcc aagttcccat catttatgcc tcttctgagt cagattgaga 120

cagacggtgg caagtctctg gacttttagca actatcctta catatztatg agatggaaag 180
aacagtatatt tgtcaatggt ggagttgact gtgggttaac catcgctggt ttctactacg 240
tctgcttttc ttgtagcgat ggctccatca atggatttta ttatgatcca aa 292

<210> 19726

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-G4

<400> 19726

cctgggatta ggcggctgac cctagggcct agcttcgttt tggcgggtggc tgctctggtg 60
cgcagtgcag tgccctggcg ctgcgcttca gcggttggtgc gcactgcgca gtgcgctcca 120
tgcccttagtg cctgccgcgg tgccgccctc ccacctccag cgaatggcga cgggtccaggg 180
ctctaggcgt ccagccctcc agctccatcc gttggactcc tgctcgatcat ccactcgagc 240
tcagctactc ggcttactgg ttccttctcg gcggtgttgc tagtgctcct agcctcctgc 300
tcgtcggtcg gtccctggccc ctgctgctcg gctgctcact tgctcggttg gcctgctgc 360
tcgggttcca 370

<210> 19727

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-A4

<400> 19727

gcgcttctct aggcgactag gcacaattgc cctctggcaa aatgccatca gtttatcttt 60
acatccgtaa cattgtccgg tatttttagga tcatcataaa ttccattgca ttgcggttt 120
gctattccaa caaggctctc ttgctatcc tgtacttcat cagctttgtc cttgatggtg 180
tggatgggtg gtttgcaagg aagttcaatc aagcatcaac ctttggagct gtgtagaca 240
tggttacaga tagggtagc actgcttggt tgttggccct tctctcccag ttttacagac 300
ctggtttagt cttcttgata ttgcttgaat tggatatta 339

<210> 19728

<211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-A5

 <400> 19728

 aatctataga tctttgttga tcacagaata atgatcatga agtttctaac gtggcggagt 60
 tgtgggatga atcgtctgaa cactcttcat accaacaatgg tgttcacatt ggaaactgga 120
 tcaagtctta ctttggatca taactatgaa gcttacaatg acatcaactt catcttcgct 180
 aatgttcatt aacactatca aaacttcgat ccacgttgat gatgagagct ctagcgacat 240
 gtacactgca cagtcacaag acagccgctc catagtgcgc aaggctgtgg atattgaa 298

<210> 19729
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-A6

 <400> 19729

 cagttgtgag agagagggga agttatcgag atcgcatcgg agtctatctc tagcgggatc 60
 caagaactca tctctacgtg tcaagcctaa tcttcagaaa aaccctcaa ctaatccttg 120
 tatgcctact tatccgaaga atccttcaag accttgcatt tcatttacc 169

<210> 19730
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-A8

 <400> 19730

 cagtaagcca tcgctcacac agtcagaccg acgcactcac taacacacac acacagacgg 60
 acaggcaact tctccatata cgccgtagcc atggcttccg ctgcgcagaa gaagatggca 120
 attgtttgct tgatgctgct ggccgtcgtc ggccaaatcg tcgctgatgc tgatgttacc 180
 gtagaacatc ccagccgcat ctgcaccgaa acggtgattg atcctcgtgt tcccaacaac 240
 gagtgcattc gctccaagaa ctgcgcctgt gccggtaagt gcacccctga gtcggctgat 300

gctgtccaga cctgctttgt cgactgcgtc ctcaagaacg actgcatctg cagcagc 357

<210> 19731
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-005-Q1-K1-B1

<400> 19731

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cttggtaaat ctggggacct gacgggaatt ctattgggtc tcctatggga aatccatgga 120
tctacatgta ccctaaaggc ctaaaggatc tccttatgat catgaagaac aaatacggaa 180
acccgcctat ctatatcacc gagaacggaa tcggggacgt tgacacaaag gataatcctc 240
tatccatgca agatgcgttg gacgactaca agaagctaga ttacctncag cgccacatct 300
cagttatcaa agaatcaata gacttggggg cggacgtgcg cggtcacttc acatggtctc 360
tgttggacaa ctttcagtgg tctagtggct aca 393

<210> 19732
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B2

<400> 19732

catacgtcaa acaagttgtg ctttcttccg tttgtctaca aaatttactc tccagggaga 60
gtagagaatt tatgcaaatt gcagctaacg acaaattaca gtagctgaaa atattttctc 120
aacagattct taattccata aaccgatgta aagatcccca atggtataac ctacatcgct 180
actttgcaga agctagaatc agaaagcgcg ccccataagc aattcaaaga tacggcaata 240
gcatagattc aaaagcaaat gagtcttgtt caacgtacaa ctgtgagcac tcatttgttc 300
tctaaatata tctttttaaac cacaaatgcc cgtcattt 338

<210> 19733
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B3

<400> 19733

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tttgatcaag tggtaggttc tattggggga aacactgctg gtccaggtga tgctgttctc 120
aatgtataca taaatcatga caagaaattt gcttttgtgg agatgagatc tgtttaggaa 180
acaagcaatg caatggccct ggatggcatt atgttcgaag gttcaccggt gaaagttaga 240
aagccaacag actacaaccc tttccttgca gccgccctgg gcccaagcca gccaagcccc 300
aatctgaatc ttgctgcaat tggcctaaca tcaagatcta atggaggact agaaggtcca 360
gaccgtatct ttgtgggtgg ccttccttat tactttact 399

<210> 19734

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B4

<400> 19734

cagcattgcg attctgcata caactctgac ttctttacgt atgggaaaca atcttacttc 60
cagtgctaata gcgtaattca tgcaaatgac atctaactac ccatgataaa gacctaaact 120
tatatgctca tgcaactaat tggtaaaca accactgttt atatcacaag attcataacc 180
aagatcacta ctttatgaag aatgaatcac aaagcagcgc tccaaaacca cgtatgataa 240
acggaacttt cactgatcca gaagttcata ctgcacgtat aaaat 285

<210> 19735

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B5

<400> 19735

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agcgacatcg tcgggctacc tgtatccctg ctctttctga aggcagatgc gaccgtatct 120
gttgtgcact cgcggacccc tgatcctgaa agcattgtac gcgaagctga catagtcac 180

gcggcagctg ggcaggctat gatggtatgt atgcagctat gccgacagat cctcacagta 240
 aggtgcagca tcttgcaacc cgttcaacgc tgctcactga gtccgtcgat gtgctctttt 300
 cttgctcgtc agatcaaagg tgactggatc aagccaggty ctgcggtcac cgatgtcggg 360
 acgaactccg tcgacgaccc 380

<210> 19736

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B6

<400> 19736

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 ggagtgaatt gatgcgaatt gcagctaacg acaaaagaga ggagctgaaa atattttctc 120
 aagagattgt taggttcggg aaccgctgta aagatcccca gtggcataac ctggatcgct 180
 actttgtgaa gttagaatca gaaagtgcgc cccagaagca gttgaaagaa acggcaatag 240
 cagagatgca aaagttaatg agtcttggtc aacgtacaac tgtgagcact ctgttggtct 300
 ctaaagatat cttctaagcc acaaatgccc gtcatttcgt tttttttttt ggctttcttt 360
 tttcaagatt tgtatcatga gctgcatgca ttagacagat ttgagcaaga gtactgctct 420
 aagataaacg gaaaggggtca ca 442

<210> 19737

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B7

<400> 19737

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 gccgccacta ggggtcccgg cgacagctac ctattccacg agcaccacaa gaagaagaag 120
 gaccacacgg acaccgagga ggccagcggc tagaagaagc accaccacct cttcggctga 180
 ccgtagtacc atccggcgct ttaccgagct aactagctcc ggcgcacaca tttacacaca 240
 ctgtaaattc tgtactgcat gcgtgtgtaa tttgatggat cacaataatg agtccatctc 300

cggaccttgg tagctgcatg cttgtgacga gtgagagtgt gagac 345

<210> 19738

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-B8

<400> 19738

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cctgatggag tggacggccc cgaagcgcg cgcctcgccg ccctcgccctc cgctcctctg 120
ggactgggga ggagaccacg ccggcgccac gggctcgggc tcgggctcct ccggcgacgc 180
cccgggcgcg cgcggctgga gggagcggga ggcgaagcgc gccagggccg acgacggcga 240
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gaagcaccgc gtctgcgagg cccacaccaa gtcctccgc gtcgtcgtcg ccggtcagga 360
gcggcgcttc tgccagcagt gcagccgatt tcatgccctg tcagagtttg atcagaagaa 420
gaggagctgc aggagggcgc tgtctga 447

<210> 19739

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C1

<400> 19739

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ggcggctctgc gcggggcggt acgtattcca cgagcaccac gagaagaaga aggaccacaa 120
ggacgccgag gaggccagcg gcgagaagaa gcaccaccac ctcttcggct gaccgtagta 180
ccggccggcg cgcgaccgag ctagctagct tcggcgacaa caaccacaca cctgtttaat 240
tctgtactgc atgcgtgtgt aatttgatgg ttcacaataa tgagtcctc tccggacctt 300
ggtagctgct tgcttgtggt gagtgagagt gtgagac 337

<210> 19740

<211> 310

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-C2

 <400> 19740

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 aacgccttga tgaggaaggt attagttttt gctgtcgaac aacttatgat gataatgcta 120
 ttacaaatgc gggtgaaata tttaatacct ctagtggcgc cgttcacttc atggcatcaa 180
 ataacgactc tgggtgtgaga tactatgaca tggagagatt ccagctattc aagcattttc 240
 agtttgaatg gccagtgaat catgcttagt tgagtcctga cagaaagggtg gttgatattg 300
 tgggtgatga 310

<210> 19741
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-C3

 <400> 19741

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 gggggcggtg cgactgctcg cggcgctggt gctggcggtg ggaccgggcg gggcgcggtg 120
 gcagtcggcg tcgccgtcga gccagtgcac gtcggcgctg gcgagcctgt cgccgtgcct 180
 cagctacatc tccgggaacg tgtcggcggc gccgacgttg tgctgcgcgc agctggtcaa 240
 ggtggtgcag tcggaccgc agtgctgtg cgtggcgctc agcgcgacc cggcgctcgt 300
 gggcctcacc gtcaaccgca cccgcgcgt gggccttccc gacgcgtgca aaggcacgac 360
 gcccgacgtc agcaactgca aaggcgccgt cgtcggcggc cgcggggg 408

<210> 19742
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-005-Q1-K1-C4

 <400> 19742

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atgatcgtgt tctacataag gccaaagccgc catcattaac gcttcttctg actcaaactt 120
 agaaagtcgg tcacaagtct cttgacttta tcactctatac ttacatatatt atcatatcaa 180
 ctacaacatt ctactctcaa tgttgacagc tgactgtgtg ttaaccataa cttacttcta 240
 ctacgtatga ttatctagta accatagctc catcaatgaa ttttattatg atccaaatac 300
 accttcattt 310

<210> 19743
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-C6

<400> 19743

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 gctccccctg cgagttggcc gggctcgccc caaggcgaag ccgtcgcta caccgctgct 120
 ccagccacga acgtcgcagg tggccagcc ctccactttg ccaactgctg ccacgatgtc 180
 actgctcctt gcaacggcgc cccctaccct atgccccgac cgcgcccccg ctgcttctcc 240
 agctctactg cccctgtcag acacgaccaa tgctctcag gcggagacag catccgaccc 300
 cgcgaaacata ggcaccgagg gcttcacacc atgcttcacc agagcgcaaa actccctcat 360
 cagtccatgg gagggactct agcaaacgac ggatctgccca atgggaaaga aatg 414

<210> 19744
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-005-Q1-K1-C7

<400> 19744

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 ggggatagag ctgcctgcaa tccgccgctg agaagggagg atcggaagcg acgatgaggt 120
 cgtttgctcc tgtctttctg tcggcggctg tggcctggct ggagctggcg ggcaccgcgc 180
 agggcgga cttctaccag gacacagaga tgacctgggg cgatggccgc tgcaaggtag 240

tggacggcgg ggcggggctg gacctgacgc tggaccgcac gtncggctcc cggttccagt 300
ccaagagcga gtacctgttc ggcaagatcg acatgcagat caagctggtg ccaggcaact 360
ncgtggcacg 370

<210> 19745

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-A3

<400> 19745

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ccggatctct ggcgcaccca cgcttggtcg ccgccgtcgt ctgctgcagc gatggcctcc 120
cccgaacctg tcttcaatct gcggaacctc ttctacctgg gcgcctacca ggcagccatc 180
aacaacagcg acgtcccggg cctcgacgcc gacgccgccg ctgaacgcga cgccatcgtc 240
ttccgctcct acatcgccct cggtctctac cagctggtga tcagcgagat cgactcgta 300
gccgctacct cgctgcaagc cgtgaagctg ctgcgctgt acctcactgg agac 354

<210> 19746

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-G12

<400> 19746

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cggctcctct cctccctctt tattccgcgc ccagcagcga ggcattggtg agaaggcgag 120
gaccatggcg cgcaggctgg agatccccca gtggaaggcc gacggcctgc cgtcgccgac 180
gagcccgtg gaccgcgctg cggcgtcgcc ccgtgggtgg cgccaccgag acgccgtaag 240
aggaagcgtg gggctcggga tcttggcggc gctcgaggcc gaaggcccgc cgcaaccgac 300
gccgaggggtg tccatcccgc ggcgcgcggc gcggctggaa gtgtcggagc tcgggtgcaa 360
cgggcgcg 367

<210> 19747

<211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-G2

 <400> 19747

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 ctgctgtgggc cgacatgggtg agggcgccta gcggtgcgtg gaacatgggg cttctggggc 120
 tgtccgtcgc ggtggttctt gctgtggccg tcgaggcgcg gtccttggag aagctgaacc 180
 tatg 184

<210> 19748
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-G3

 <400> 19748

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 caagcggcta ccccgaccgc aaaaccaccc taccggccat gggtctctcaa ctccacaccc 120
 agccgcctct caccggtctc taaacgacgg cgcgccccag ccatccgctc ggcgggccacg 180
 gacagcagct tcagctccgg cgagacgccc gtccaaaaga accacccgga aggagaacca 240
 ccaggaccgg cggcggcagc agaccgtgca ggaccggaag caccagttcc ggggaatgga 300
 aaaaccgtcc ttggcaaacc agaacggcgg cggaagcgga agcacaagca ccggcaaggt 360
 tgacaacaac aacgagcttc cgaagcccgg gttgaaccgc atgctgcgcc ggatcgcggt 420
 cacggtgggc cttcc 435

<210> 19749
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-G6

 <400> 19749

 cgctgccagc accaaggcgg cctcttcggc tgctcccgcc gttacgacga cgaagccggc 60

tgcgtccgtg ctgccagctg cccggccgcg ggaccccaac aagcgggagt tccgttccta 120
 cggcagcgcg gcggctctgt tcgttcagat gggcgcgtag cggggcggcc cgcgtacgtt 180
 cgccgtcatt gggttggcct ccaagccagc acacgtctat gacacctctt acttcaagtg 240
 cgagt 245

<210> 19750
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G7
 <400> 19750

tgcatttaag gactacttca agaggttggt caacttcaag aaggataggg atggctattg 60
 gaagtgggtt gctggcaacc tggcctctgg tgggtctgct ggtgcttcct ctatgatttt 120
 tgtgtactcc ctggactacg cgagaacaag gttggctaata gacgcgaagg ctgccaaggg 180
 aggaggtgaa aggcagttca atgggcttgt cgatgtctac cgcaagacac tcaagtctga 240
 tgggtattgct gggctttacc gtggatttaa catctcctgt gttggaatca ttgtttatcg 300
 tgggtctgtac tttgggctct atg 323

<210> 19751
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G8
 <400> 19751

cttcagccca ttcattccagc aacagtatca tgacaaatat ggtgataaag agatgattcc 60
 tgttgctgca aatgatgttg ctttttcact gcatgctgta gcattgacag cttttaccgt 120
 ttttcaagta ttcatatatg agcgaggaac acagaaagtc tccaaagttt gcatatcaat 180
 ttctgctatt gtctggatcg ccgctcttgt ttgcctcatt attgcttggc caaaaagtga 240
 ctggcttttg gcttattgat gaattcaatt caatacaagt tggcatgaca gcaatcaagt 300
 acttcttca ggccatcatg aacttcaggc ggaagagcac aattggttgg agcgttggca 360
 atatattact tgatctcaca ggaggggtgc tgaatttttg ccaaaggtt gtgcagtcta 420

tagatcaaca tac

433

<210> 19752

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-004-Q1-K1-G9

<400> 19752

gtcgaccagc gtcgccagtc gtcgtccact gacagtcgac acctatagca cctgctcgac 60

agaggtanag gcggaggtgt ctgctctctt ggggtggacc tacctgcaca cggatgcgct 120

gggcagcgca gtcattgatct acaactactg accgacccca agcgctacca gcaggcctcc 180

cgccgagtgc tccatgcaga gcgcccgggtt atcctcgccg tccaacaatg gncgcgcgcg 240

cgtgtgtgtg catgggccgc tctactgtac cgtcgacgat cgggtcgatc accggacaag 300

gcaagacaag gcatcgaaac atggtagata aataaggact tgcgatttga acgcatagct 360

ggtgcgtgcg tgggtgtggtg gaagaaattc ttct 394

<210> 19753

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-004-Q1-K1-H11

<400> 19753

ctcaacattg caacatcagt ggtggtggtc gtggtcgtag ttatgacgat gtgcatggct 60

tggaggatgc atcgatggga gtttctgata cagtcttggg aggtgcctat agtagccgtg 120

gtggtcatgg tggtcgacgt gcacgtggtc atcatccagc ccccttcaa caatgccata 180

tcgtgcacct cgcacaattg gagatcgtgg tgctgctgtc tagtctgtgg acgacgacac 240

tganggtgat gaattcaatg accaagatgc tttggggcat gctgaatgga ggaagttaaa 300

atatggacca ccagaaaacc ttgataagct tgagataatg tttgagcata tagctatgaa 360

tggatcaact tcctgcacac caggacaaaa tattgatata gaaggacctg atgttgaagg 420

agtagaagct gcaatagaag acagtcctccg tagt 454

<210> 19754
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-H12

 <400> 19754

 gaccgacgcg tccggccggc gcaaactctc gcccgagccc gacagatctt caattcccca 60
 ttccgcccac cgatcgggct tcacgccagt ctccgtctct tccgaaggcg tcgcgcgcgg 120
 ttgtttgaga ggagaggagg aagatgaggg agtgcattct cgtccacatc gggcaggccg 180
 gcatccaagt cggcaacgcg tgctgggaac ttactgcct cgagcacggc atccagcctg 240
 atggccaagt gcctggagat aagaccgcg gacatcacga tgatgc 286

<210> 19755
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-H2

 <400> 19755

 gtcacacaca cacacacaga caagtggttt ccaaagccaa gtgtgtgtac tagcaaccag 60
 ctagctcggg cggcagcagg caggcatcat gtcggaggag aagcaccacc acttcttcaa 120
 ccaccacaag aaggactatg agcagcccg cggcgagtac gggactccg agaccgaggt 180
 ggtcaccggc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 240
 gcacaagcag cacc 254

<210> 19756
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-H3

 <400> 19756

 gtcattcaca ctaacgaacg aactcttgct ccgatcacga gctagctgag gtcgacgatg 60
 gcggctgtgc tgaacagcat gaagacgccg catgcggtgg tggccgtgct ggtggcgggc 120

gcgctgctgg cttcgtccgc ttccggcggcg atcacctgcg ggcagggtggg gtcgtcgcctg 180
gcgccgtgca ttccgtaccc caaggggagg gcccgcgcgc ttcccagggt gtgcctgaac 240
ggggtaaga gccttaacag cg 262

<210> 19757

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H4

<400> 19757

aattccgggc ggaactggac tagaactagt agatccaatc caaactcgg gacgaaatta 60
aaggagacga cgcacatcc gcccggcagg catcgcacgg tcaccaccat gccggcgcgag 120
gagggcggca tgaggctggg gtcgcacccg atcgcgcgcg acgacgggcg gctgccgcgg 180
cagtacacgg cggaggggca gggcgccaag aaggacatgt cgccgccgct ggagtgggtac 240
ggcgtgcccc agggcgcgcg gtcgctggcg ctgctgggtgc aggacatcga cgccgacccc 300
gtcgtgccgt ggacgcactg ggtgggtggc aacatccgc ccggcacagg ggcctccccg 360
agggttctcc cgcgccgagg ggcaggggccc ggggcccggg 399

<210> 19758

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H5

<400> 19758

acgcggagcc ggaggacgcc gccgccgacc tccccctccc ggcctcttcc gatagggcgt 60
cgcggtcca cgccctggcc tccagctccg cctcgacca ggatgggata cgcacggggg 120
ttgacctgct gcggcgtgc gacgacatgg tcagcaagct cggcctcttc tcccccaacg 180
agaccaagga ggacgtctcc acagcaaacc tcaagtacct actgggcca tattaccttg 240
cagaaatgac cgaagagata gcacaggagg atcgatccc ggttcttaag acgtcacagg 300
accatctgaa ggagttcatt gctctatggg aagtactaga gcttatgcca gaggatgagc 360
tagaattgtc taagcagaag caggcagata ctatgacgag cagaagagcg cagaaggtgc 420

ccggttcaaa cgtccaaggg ctgcagaaac gaagc 455

<210> 19759

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H7

<400> 19759

tgccagcaa tggattatga tagccacatg cagactactg tgaaggtgga agatgaaaaa 60

gcagaggatg acttgccaga tgctgacaat gatgtacaga aggtagagaa agagaagcta 120

aagaatgcaa aggatgggtc agataaacga aggaaagatg ccttattgag gaagttatcg 180

gcgccaatga cccactgaa tgatgcacaa aaacctgcac agaacctgcg tgcataataag 240

ggagaacttt agaaactgga gaaagaacag ggaga 275

<210> 19760

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-H8

<400> 19760

cggacgcgtg ggcggacgcg tgggcttgag aatatgtctt gaaggtggat atcatgtctt 60

ggatgagtca acacattaca gtagtgattt aaggccaact gcaaagcccc tgtggaaacc 120

tatcattggc attcttgaac tgggtatatt gacagcacag ggctgttgc caatgaagac 180

caaggatggg cgtggcacia ctgatgcata ttgtgttgca aagtacggac aaaaatgggt 240

gcgtaccaga actataatcg acagtttcac tcccaaattg aatgaacagt acacctggga 300

<210> 19761

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-005-Q1-K1-A2

<400> 19761

attcgagggc tgtgatcaag tgtatcgagg agtacaagct tcataaggag tattcacttg 60

tacgtgttca agagcctgtt tctgagctaa agcctaacgg tgagaaaagg ccatcaactg 120
atgctgggtga gcgtacttat gcaaagaagc ctcgacgcc tggcatttca tttaccagga 180
gacctgacag ttccattggt tcagctgctc gcacgcctac atttccggac tataactggc 240
accgt 245

<210> 19762
<211> 390
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-G11
<400> 19762

atgatcctga gaaaatgctt tcacgtggaa cagaaattac tctttatttg agagatgagg 60
acggatatga gtttgctgac cctaccagga ttcaaggctt agttaagaac tactcgcagt 120
ttgtctcatt ccccatatat acatggcagg aaaaatcaag aacagttgag gttgaagagg 180
aggaagaatc aaaagggtgaa gaagctactg aagaatcaaa aagtgaagag gctactgagg 240
gtgaaaagca gaaaaagaag aaaaccataa ctgagaagta ctgggactgg gaattggcta 300
atgaaacgaa gcccatatgg atgaggaatc caaagaagt tgagaanact gagtacaatg 360
aattctacaa gaagacattt aatgagtttc 390

<210> 19763
<211> 180
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-004-Q1-K1-E3
<400> 19763

caggatatta ttactagaga gcctcacttg tatgcattct cattcaagaa cgggagactg 60
gaggttactg agatcttcaa cttttctcaa gatgatttgt taactggaga catgatgata 120
cttgacacac aatgtggaat tttcatttgg aatggtcagt atgtggaatc aaaagagaaa 180

<210> 19764
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E4

<400> 19764

gggagagatt gtagtgTTTT aggctgagta gtgaagagct ttagttctg cacggaacat 60

gcatgatggg ttagttga tgcaacaaca ttgctgatat aaaaaaaga 110

<210> 19765

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E5

<400> 19765

cagtcctgcg ccgattccgc tccaactct tccgagcatc agatcattga tccactggga 60

ctgtgatgag agtgtgaatg tagatgtcag ggcctcacat gagagtgaat atggatctat 120

ctctactgag aattcactag aatcagagag ggcagcatat gaatatctgg ctcacactcc 180

gtgcatgtca actgatgcac a 201

<210> 19766

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E6

<400> 19766

gccttactgg acaagcattt ggcaacagge actttcgatg aggagattag acctatgggc 60

caggcagtga aatcattgct ggtgaccctg ttctggctgt gcctcctgct gtttggcgcc 120

atcgagttct tcaagtggac acagcttctg tcgacgtgga ggggtgtggc gttcactgcc 180

gcaggtatgg cgcttgtgac ggggtgtcatg catgtcttca tcatgttctc ccaggctg 238

<210> 19767

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E7

<400> 19767

cggacgcgtg ggtggtgaca atgttggaga ttgtgctgcc cgaggcgctg atctttgtga 60
 gagcatagca gcagaaatta tcagtgaat gatacttga ggaacaatgg cacagcgctg 120
 taaaattgag gatccgtctg gctttatattt gtttctctt gttgtgcatt catttgattt 180
 ggtggtgtca tcagtcggaa ttctctcaat cagaagaaca cgtgactctg ggctcatttc 240
 ccctatcgaa gatcccatgg caattatgca aaaaggctac tctgttacta ttatgcttgc 300
 tgttcttaca ttggagtggt ctactcgggtg gctcctgtac acggaacaag caccttctgc 360
 atggctaaat ttgcattgg ggggcttggg ggggatcatt acaggatatg cctttggttg 420
 gaatt 425

<210> 19768
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-E8
 <400> 19768

gggacgaatg gcgagctctc agtgctgcga taaccgccc gccctgaacc cggcctgcgg 60
 ggagggcaag gtcgtcgaca gcttcggcgg gttcaaggcc tacgtcgccg gccccgagga 120
 ctccaaggcc gccgtcgtcc tcgtcgccga cgtcttcgga ttcgaagcgc cgattatgag 180
 gaagatagcc gacaaggttg cttcgtcagg gtactttgtt gtggtaccag atttgtttca 240
 tggggatcct tatgcacctg agaatgttga gaagcccttt cctgtgtgga taaagtcaca 300
 tactccggaa aaagggtttg aagagacaaa acaagttatt ggggctctaa aggagaagg 360
 agtgtctgct gttggaactg cagggtattg ctggggtgca aagggtgttg tggagtggc 420
 aaaagctcat gagatccag 439

<210> 19769
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-E9
 <400> 19769

caccncggcg agtacaacgg gagccctgt cctgacagg gccctgctc gggttcacgg 60
gcaccatcga gcgcgccgtg gtcggcgcca ccggcaagtt caagctggcg cgcggttaca 120
tgcttttcaa gatgataagc aagccgacgc cggagacgga cgtcaacgag atcaacctgt 180
tcgtgctcat gcaccccgct ggcaagtact agcgcacaca ccttgagact cgagtgagtg 240
gctactaccg cattgttgtt gggcaggttg ggtgaagtgt ctatggccaa tccaactctt 300
tcagatttgt ttctcttggg gaaacccaat aaacatgcaa cttctttgac ctctgagaaa 360
aaaatgtagg ccctgtttgt tgccgaatgg cttgtttggg tt 402

<210> 19770
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F1

<400> 19770

gcgtcgacaa gggcgccacc gatgacgacc tcaagaaggc ctaccgcaag ctcgccatga 60
aatggcacc cgacaagaac cccaacaaca agaaggaggc cgagaacaag ttcaagcaga 120
tctcggaggc gtacgaggtg ctgagcgacc cgcagaagcg cgcgggtgtac gaccagtacg 180
gcgaagaggg tctcaagggg caagtgccgc cgtcggggcg cggcggagcg ggccccggcg 240
gcgcaacctt tttctccacc ggcg 264

<210> 19771
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F11

<400> 19771

cacaccaca ggctgcccgc cacagcaccg cggatagcag agcagagcgg cagccaggctc 60
gggcgtcgtc gtcgtcgtca gccatgagca aggacaagca ccacaagcac gagcaccacc 120
tgcggcgttg ctgcgggtgc atggcgtcgt gcctcctggc gctggtccta atcgtggcct 180
tcgtctcgtc ggtgggtgtac ctggcgctgc gcccttcgaa gccgtccttc tacctgcagg 240
acctgcagct gcgcaggccc a 261

<210> 19772
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-F12

<400> 19772

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 ctgancatgg ccgtcctttc atgaagggcc gtctgtttgt tgaattcaac gtcgagtttc 120
 ccgagcctgg tgcgctctcc cctgccaggt gccgatcggt ggagaagatc cttccgccga 180
 aaccagggag ccaactgtcg gacatggagc tggaccagtg cgaggagacc acccttcacg 240
 atgtcaacat tgaagaggag atgaggcgca ggcagcagca gaagaagcag gaagcctacg 300
 atgaagacga ggaggaggat gctcaaccaa ggggtgcaatg tgcccagcag taaaatccgt 360
 gttcggttga actgttctcc aaaagtttca gcaggatttt ttatccatct gatcatctcg 420
 attctttttt gcaaaaatat aatcgt 446

<210> 19773
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-F2

<400> 19773

ggactaactt aatcaaagag agcatcagaa tgggctacaa tgacattggt gatttcttct 60
 atgcccattg ccaactttca gatgctttca aaagctacat caggactcgg gactattgca 120
 ccacttccaa acatatagtt cagatgtgca tgaatgtgat tctggtttagc attgagctgg 180
 ggcaatatgc acatgtttca aactatgtca gcaaagcaga gcaaaccccc gactctctgg 240
 atcctaccat tggtgcaaag ctgaaggcag ctgcaggatt agccaacttg gaaacanaga 300
 aatacanatt tgctgctcgt aagtttggtg agacaggaat tgaactagga 350

<210> 19774
 <211> 314
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F4

<400> 19774

ccaagcacac caccactcca cagtgcactt cactctacag caacgacaga aaagtgagca 60

gcagacagca gcagctgctg ccatggaggc gtggagatct ctctcgcga gcttcgtgct 120

cgccgtgctg gccgcgcagg ccttgggtggc tgtggtcgag tccaggaccg gccccgtgga 180

gcaggcgagc caaggtgacg acgtgaagaa gccggactgc gtgccgggga tagaccgcgc 240

ctcgttcccg gtgaccggcg gcggtcacgg catcacgcc gtgacgccat cgcacggagg 300

ctccagctcc ccga 314

<210> 19775

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F5

<400> 19775

caccactaca ccacaagtcc acaagtccac aacaccacca gcctcgtcac agccgcttca 60

gcataccaca ccggacgcag acccaccgcg cgctacgacc accaccgtca ccatggccgc 120

cgcgcgctac gacgtggaga agggcgggag gaataacggt gatgggaagc cttcgccgac 180

gacgccgccg ccgccgccgc cgggccacct ggaccgcgag cgcgacggcg agagggagtg 240

ggtgccctgg gtggtgcccg ctcgctcgtgg cctcaacaa tcgtgctctt cggcgtggcg 300

atgtaccgca acaactggcc gggcc 325

<210> 19776

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F6

<400> 19776

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cagccgcagc tggtcgcggc ggcggcggtc ctggcagcgg cgctcgtgct gctggcggcg 120

ggggcccggga cggcgctcggc ggcgggtgagc tgcgggcgagg tgacgtcgtc ggtggcgccg 180
 tgcctcgggt acgcgatggg cagcgcgggcg tcgccctccg cggcgtgctg cagcgggggtg 240
 cgctcgtca acagccgcgc gtcgtcggcg gcggaccggc aggccacctg caactgcctc 300
 aggagcatga cgggccggct cggcgggggc gtcagcatgg ccaacgccgc caacatcccc 360
 ggcaagtccg gcgtctccgt cggcgggccc atcagcccca ccgtcgactg caccaagatc 420
 aactgatcga t 431

<210> 19777

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F7

<400> 19777

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 gcaagtcacc aagtattgct cggatgaacc gtggggatgg taccagcctc catctaagct 120
 gtgaaggggc attcactcca gggaatgtaa tgcattcatta actgacagca tcagtctctgt 180
 taatggacag gagctcgtgt acagtacagt gtcgttaaaa aaagctcttt gatggtaaag 240
 ttgcttgctg ctatcactac tccagaccag aattcaggac tggagagtac gatgtcatga 300
 gttgtactac ttgttagtct ggactcttta tcattcgaag tttggcagtg gtgtgtaatt 360
 gcact 365

<210> 19778

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-F8

<400> 19778

aaaatgactc aaacgagaag agtgtacttg aggaacgtgc tatggagcta gagcaagttc 60
 gtaggcagtt agaggattca agagctgagg ctagggagct acaaactaca attaagaacc 120
 tgaatcaagt tcttgaagag aaagcagaac ttgagaatcg tatgaaggat gcggagcagg 180
 caaccagcga cctaaactcc ctggtcggtt cctcgcagcg caagctgaaa gccacagagg 240

cgagctcga acagcttaac gcggagaaag cagaagcgat cctcgaaagc gagaaacagg 300
 tatccgagct gaaccaagcc atcgcccgtc tcaagacgcg gctggagctg ctgtcttcgg 360
 aaaaggccgc agtcaagacc aaggagtccg ctctgctgac caacgtcgcc gtccgcgacg 420
 agaagctgaa ggagacgga 439

<210> 19779
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-F9
 <400> 19779

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 gcgcatgatg tgggtcatat ctgggctgta ctgtgtctat ggcggaacc cgatggcaac 120
 ggacatcccc aaacagacag acgcgaatgc ttcctgtcga ttgaaaagaa tacaggatcc 180
 agagttctac atctgaacac tattatacag acgccggccg cgatactgcn gtggaatggg 240
 tacatgcaca aagcaccag gcggtcattg aactcaactc acagcaaagt tgcaagctaa 300
 tcttcattctt ggaacctacc ttcttaaata ctg 333

<210> 19780
 <211> 179
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G1
 <400> 19780

agcagcgtaa cttactcact agtcactact gcttggctct agcctctagc tagtcaactc 60
 ctgcgtggcc cggcatgggg agggcgccga gcggtgcgtg gaacatggcg cttctggggc 120
 tggccgtcgc ggtggttctt gcggtggccg tcgaggcgcg gtccttggag aaacaaaaa 179

<210> 19781
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G10

<400> 19781

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acggcacctt ctccatggag acgtcggcgc tggacgccac caacgtggag cgcgccttcg 120
ccgaggtgct ccgccagatc taccacgtcg tcagccggaa cgcgctcgac atcggggacg 180
accccgccgc gccgccagg ggcaagacca tcgacgtcag cgcgcccaag gacgaggtct 240
cccctgtgaa cgcggggcgg tgctgctcgt cggttagcc ctgggtcaaac atacgctttg 300
ctgattaagg aagacataac gtgatgacaa tctttgttga ctctgtcaag cggttggggg 360
tggttggcgc tcgtgatgtg tttgcagact agcaatcgct gtcctcgatt gtatttttcg 420
ggctattttt tgattgatgc ac 442

<210> 19782

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E2

<400> 19782

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cacagagagg cagacggcag gactcgcttc aagctcctca tctcgcgcag ggggggtcgc 120
ctgagatcac agagacaatg gtgaaggcag ttgctgtcct cgccggcact gatgtcaagg 180
gcaccatctt cttttcacag gaaggggatg gtccgaccac cgtgactgga agtatctctg 240
gcctcaagcc aggctccat gggttccatg tgcacgcgct tggcgacacc accaacggct 300
gcatgtcgac tgggccacac ttcaatctg 330

<210> 19783

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-004-Q1-K1-C12

<400> 19783

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tgtntngaga ggacgtaggt aggggtggaga tatgatagga taacttaaat ttgnattaaa 120
 tttagaattht aagttatgth agtaataatg gggttgaaaa gacatattaa caaagaaaga 180
 tcatattaaa agttgatgth acatttgtag atataggagc taggaggtth tctataaatt 240
 agaaaatgtg taagagcatt ttgaagtcaa ttgttttgth actagtgatg taatggagaa 300
 acagagttth gtgtgtgtgt acaatcaagt aaaatgtgga cacaaaattt ttttagatga 360
 gaagataa 368

<210> 19784
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-C2

<400> 19784
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 atggggctcc gcgtccgcgc ctctctgctt ctgctatccc tggccatcga gctcgcggcc 120
 gtgctcgtct cagtgtcggc gcagcagaaa ttcgggatca actacgggca gatcgcgaac 180
 aatctcccgg acccgacgca cgtggcgacc c 211

<210> 19785
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-C3

<400> 19785
 aaggactgga gaaaattatt ggtgtttaga gaggagtggc aaaggtatag agggcatttc 60
 tacagagcgt tgtcaagtgc gcatacatat ggaggctgat ccctcattga aacaaaagtt 120
 ggttgtactt gctagaaaag ttaaaaagat agatgatgaa atagagaagt acatggaact 180
 cttcactgag cttagagaga accctgctga tattaatgcc attgttgcaa gacgacggaa 240
 ggatttcact ggggacttct tccgccatct taatttcctt gtgaatgctt ataatggcct 300
 tgatgagcga gatggaatag tcaggcttgg ggccaaatgc ctgtccgcaa ttcatgcata 360
 tga 363

<210> 19786
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C6

 <400> 19786

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 tcgattcgac cccgattcgt cggcccgga cgggattcc ctccgccaag cgcggatctg 120
 aacgctgcgc tccgtgtcgt cgctcgaatc cgccatgaag ggggccaat ccaagggcgc 180
 cgccaaggcc gatgccaagc tggcggtgaa gag 213

<210> 19787
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C7

 <400> 19787

 acgctccata tatttttttt ccttttaaag tttccagtgc agagaagggt ctctgtaatt 60
 gtgcacctga agaagagact gaaatgtcaa taagtgcaaa atttcgtgct atacagccaa 120
 gttcttcaat cctttcatat gtggaagata atttactagg tcgtaggcgc ttaattgaga 180
 taaaaaatgc tggctacaat gtcaagattt ctgctcctct ggataacgtt cccttctcaa 240
 ccagcacaga gcgtgaacgc atagaggaca ttgcgttcag aaataagctg gaattctttg 300
 ct 302

<210> 19788
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C9

 <400> 19788

 ctaatatata agataatggt aaattagcct gagttcgtga tctgctttag ttcagtttac 60
 cattagcttg tatattatga gcctcagttt gtatcactta gggcctgttc gtttctgctg 120

gaacagacca ggattaattc caaatctcta aaacttatag taattattga aagaatccga 180
gtcatattt 189

<210> 19789
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D1

<400> 19789

gctctcgtcg ccgtcctctc ccgttcgcaa cgccacgcta cccaccgccg aaatggcccc 60
gaagggaggt ggcagggcac cgggtgcctgc caagaagaac acggataaag tgacgaaccc 120
tctgttcgag aaaaggctga agcaggctcg catcggcggc gcgttgcttg ccaagaagga 180
cctgcaccga ttcgtcaagt ggcccaaggt cgtgcgcatac cag 223

<210> 19790
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D10

<400> 19790

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ggaacgtgcc ggcggngcag gagatggta cccaggacaa tctccccggc atgacctacc 120
tcaaggccgt catcaaggag acgctccgcc tgcacccgcc ggtgccgctc ctctccccgc 180
actactccct ggacgcctgc gaggtcgccg gctacaccat cccggccaac acccgcgctg 240
tcgtcaacgc ctgggcgctc ggccgccaca ggggtacttg ggagcgcgag aacgagttcg 300
tcccgagag gttcctcagc ggggacgtcg cgggcggcgt cgacctcaag cccaacgagt 360
tcagttcct ggcgttcggg tccgggcgga ggatgtgcc cggggtccac tcggcgctcg 420
cgaccatcga ggcgatgctc tc 442

<210> 19791
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D12

<400> 19791

cttggctcct gaatacgcga tccgaggcca agtgacgaag aagtccgata tctatagcta 60
tgggggttctt ctttttagaga ttgtaagtgg gagatgcaac accaacacga gattacctag 120
cgaggaccag ttctctcttg agaggacatg ggactcttac gagcaaggac gtctagagga 180
catcgtggac atggacatcg gcggcgaccg ggacgtcgag gaggcgtgcc ggttcctgaa 240
gatcggcctg ctgtgcacgc aagacgcgat ggcgcgccgt cccaacatga ccaacgtcgt 300
ccggatgctc tcgggggaaa agaagatcag cgtagagaag atcactaagc ccgcatgat 360
ctccgatttc gcggagctca aggtcagtaa caaggagcga aggccgggag aggcacggtc 420
gcccacgac 429

<210> 19792

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D4

<400> 19792

gtttcgcagg tgatgctgaa gatgaagagc cggcatgtgg cggggacgat cacgaagaag 60
aagaaaagta agcggcgcg c atgatatggc ctgagcagcg tgcgccaccc gttgccagta 120
cactgacact ggctctcgct acgtgcaggc gtgggtgatcg acgtgtgcag ggacgtgccg 180
gcgtggggccg ggcggcacct gctggaggac ggcgagcacc ggcggtactt cggcctgcgg 240
accgaggagc accgggtgat cgagttcgag tgcggcagcc agcgggag 288

<210> 19793

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D5

<400> 19793

cgctgctgca cctgtcgtga gccccctcct gactgaccga ctgactgacg gggactactc 60
gccttttgca gcaagagata cagggactcg agcgcattca gcccgctctcg cgatgtggca 120

atgagtgaat aataaaaaacc ctctcttgcc cctgccgctc tacgctttct ctcgctctgga 180
actggaactg gaactcagac atcgtcactg gacca 215

<210> 19794
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D6

<400> 19794

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ggccggccgt tggcgggggc ggcgtctgcy aggggggtga cgacggtcac actccccgac 120
ctctcctacg acttcggcgc gctggaaccg gccatctcgg gggagatcat gcgcttgac 180
caccaaaagc accacgccac ctacgtcgcc aactacaaca aggcgctgga gcagcttgac 240
actgccgtct ccaagggcga cgctncgct gtcgtccagc tgcagggcgc catcaagttc 300
aacggcggcg gtcattgtgaa ccattcaatc ttctggaaga acctcaagcc cattagcgaa 360
agtggcgggg agccgcctca tgggaaactt ggctgggcca tcgatgaaga ttttg 415

<210> 19795
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D8

<400> 19795

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tgaaagcatg cactatgtaa tgggtgattg ctttgggaaa ggcattggaa ctgaacagtt 120
ttcagaggcc catttggtgt ggaaaagaag caaaccacct aattttccca ctagatacaa 180
tctcactcgc tttgcaatta cactgaacga acttaccctt ggattgaagg aaaaattgcc 240
accaacagac tcaagattac gaccagacca gagatgtctg gagaacggtg aatatgaaag 300
ggcaaatgct gaaaagttga ggcttgaaca ganacagcgg caggcacgaa agatgcagga 360
tagcggatgg aagcctcggg ggtttgcaaa ggataaagct actgacacat accgttactt 420

cggtgggtac tgggaatcca gagaaaagag c

451

<210> 19796
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-D9

<400> 19796

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ggtgatggcc gtttctttcg cagacctcaa caccgaggca gggcttaaaa agcttgatga 120
gtaccttctc actcgagct acatcactgg ctaccaagct tccaaggatg acttggtgt 180
ctacacttcg ttttctgtcg ctccctcgtc caagtatatc aacgtagcaa ggtgggttaa 240
tcacattgat gcgctcgta ggctgagcgg aattactgca gagggccaag gtgtgaaggt 300
tgaatcctca gcagttcctt cagccccaac tccagatggt gctgaagcac aggccccagc 360
tgctgangag gaggacgatg atgatgttga cctttttggt gaggagaccg aagatgagaa 420
g 421

<210> 19797
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E10

<400> 19797

cgtccctgca cacggcggtt ttcagactgc gatccattcc gagcttcgag gaatcgatgg 60
tgaagcttcg gtgactaaga gatcaaactc ttcaagttct acgaggctga agatcctgag 120
catctgtttg gtgaagattc ttatgccatg gaaattcatc gattgatagc tccttttcat 180
agtcgatcat ggttcaagga gattgcattt gtggatgctc taatggagtc gaaaggtggt 240
aagaagtcta gtagtagtag tagtaatttc atgtacgaag ctccccttgg ctacaagatc 300
gaggacgttc gccagccgg aggaatcaag aagttccaga ctgctgctta ttccaactgc 360
gtccgccagc catcctgata tcgcctcaca tgcaattcgc ggtagagtag gattttaatt 420

cagttt

426

<210> 19798
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E11

<400> 19798

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acgtcatgct tgctcttcca gctcgacgac tccaccggca gaggcgtcgc gcgtccgtcc 120
gaggggcccc aatcggcgga gttccagtcc gtttccgaag gagggaggccg agggggcaag 180
cggatctatt ttccccctg gcacgtctct ctgtccaccg atctccgccg cctcactgct 240
cgcacgtcgc gcctcaccgc ccgcaggcag ctgcccaga tcatggcgga ggtggaagca 300
gcgcggtgct gtgtgcgtgg gggcgggttg ctcaacacca tcgtcatgaa cgtggttctc 360
gagccatgcg tgtgcggc 378

<210> 19799
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-E12

<400> 19799

cacctgacat caagaggag atgcagatgg agatgcagcc cgcaccacca ccatctgctg 60
cggcgctggc atcgacagc gcgtggccgc tggattggcc ggtggacggg cgctcgctca 120
atcctccatc gctgccact atatcagtc agtatgtgag tcatattgat ttttataatc 180
gattttatgc gccagttctt gcctcgacta atgggtcctc ttccattttg taatcacctc 240
tgcatgttta ctgtatcact ttggtaaatt actattgttc catgttgtct tccacaacat 300
actggactgg ttcagtgggt agtttcctat tcaaccattt cataatgaag gatgtattgg 360
tatttaggta aataattatt tatgattgtg ctggtattat ctcaatagac tggaaaattt 420
taaataacct catatgacat aaa 443

<210> 19800

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-C11

<400> 19800

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agaacaagaa cgacaagagc attgcatttg catgggaacc taaaggacat cgctttgcta 120
tcatccatgg tgatggccct aagcctgatg ttagcttcta caccatgcga acagccaata 180
aactagccg tgtatccaag ctcaaaccc tcaaggccaa gcaagctaact actctgtact 240
ggctctcctgc tgggcgcttc atagttcttg ctggactgaa gggtttcaac gggcagctgg 300
aattctacaa tgttgatgaa cttagagacaa tggcaacagg agagcatttt atggcaacag 360
atatcatgtg ggatccaact gggagatata tcgcgactgc agttacctca gttcatgaaa 420
tggagaatgg 430

<210> 19801
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-A2

<400> 19801

aggcaaagga tgtcaagaag gaggtccaa aggaggcccc caagccaaag gtggttgagg 60
caccagcaga agaggaagca ccagagccaa agccaaagaa tcctcttgac ttgctgacac 120
caagcaagat ggtccttgat gactggaaga ggctatactc aaacacaaag accaactttc 180
gagaggttgc catcaaaggt ttctgggaca tgtacgacct agagggctac tctttgtggt 240
tctgtgacta cagtacatt gatgagaaca ccgtctactt tgtgacctg aacaaggttg 300
ggggattcct gcagcggatg gacctgtgcc gcaagtactc ctttggaata atgctcgtga 360
taggctctaa accacccttc aagctgaagg gcctttggct cttccgtggc cagaatgttc 420
ccaagtttgg aatggatgag gtctatgaca t 451

<210> 19802
<211> 294
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-A3
 <400> 19802

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atcaataaag cttgccgccg cctcgacgac atctcgtgcc gatcccaaca gtcattgttcc 60
aattgctctc ttggctgctg cttcctcttc ttccctcttg gtcttggcgg cggtctcttt 120
ttcccttctt cggcgaagaa aatggccagg caccagggcg tcgactggtc gacgacggct 180
ctgttccaac aagtccgcgt cgtcggcgct cggccggggc cgctgcaaag tcatgacaga 240
agaaaaaaaa catgcgcgag cgtgacgggc aagaaaactc cagcagatcg agct 294

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<210> 19803
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-A4
 <400> 19803

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attaaaatgg aattctgtta tcacaggatt attgacgatt ggtccccgtt tcggtggagc 60
aattgatgat gcagcccgat acttcaaaga tgcattgtat aggagcctca cgccatacga 120
gtttgttgaa ggcatgaaaa agaagggaat ccgtgtgcct gggattggtc acaggattaa 180
gagcagagac aacagggata accgtgtgca gcttttacag aaatatgcta acacacattt 240
cctttaattc aagtaccatg gaatccgctg ttaagggtga aacctacacc ttgtcaaagg 300
ccaccatttg ggt 313

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<210> 19804
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-A5
 <400> 19804

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acgcgttggc ttttgaggcg acgtgagagc aggcacatct tcaattcatg aaccctggca 60
tggaggatga tccaacttgt ggtccatcc tagacaacgt tgccgtcaag aagctcttca 120
ccccagacaa accaaaggat aacgtggtgc tgaatggaga ctttgaggag ggtccatgga 180

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tggtcccca cactgagcttc ggcgtgctgc tcccaactaa ccttgacgag caaacgtctg 240
ccatacctgg ttggatgata gactcaaacc gtgccgtccg gtacatagac tctgatgagt 300
acaaggtttc ccagggaag cg 322

<210> 19805
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-A8

<400> 19805

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gatcgagggg cgctccaaga tgatgatgag cgggaaccgg aagcagaggg tggcattgtc 120
gccggtgaag gaggccgccc cgggtcccaa ggaggaggtg tgggaggtcc ggcccggcgg 180
gatgctggtg cagaagcgga gccncgacgc ggaaccgcg gctgtgccc ccatccgcgt 240
caaggggtcaa gttcaacggc gtctaccacg agatctacat caattcccaa gcatccttcg 300
gcgagctgaa gaaactgggt tcggagaaga cgggccttga cccggacgac cagaaggtgg 360
tgtacaagga caaggagagg gacttcaagg cgttcttgga cat 403

<210> 19806
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-A9

<400> 19806

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aaactgattg agatgtgctt gaagagagac cgagagctct cccttaaagc ctttgaagta 180
tttgctttga caagctcatc gttccgaagt tctaacagag gccttctaga ggcattgctgg 240
atgaatgcaa ctgaccaaga tgattgggta aagctttcag aggcattccat gtcagaaggt 300
tggagtgcg aggtcatcga agaattctct caagcaactg tcctcttcaa agcttccagg 360
ttgtgttaca gcccggtatg tgtggtgtat gacggcacct ttgaggatgt tctgcctgtg 420

aagaaagagg atgtacatct g

441

<210> 19807
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B1

<400> 19807

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cgtcgtcgaa ctcttccctt tacggcggca ttggagatgg cggcgaatct agaggacgtg 120
ccgtctctgg atctgatgca cgaattgctc cgtcggatga agtgcagctc caagcccgac 180
aagcacctca tcttcacggg cccacctggc tctggaaagg gtactcagtc tccccttatt 240
aaagatgaat attgcctgtg ccatttagcc actggtgata tgttgagggc tgctgtggca 300
gccaagacaa ctctagggat caaagctaaa gaagctatgg gtaaaggaga gcttggttca 360
gataacttgg ntgtggggat tattgatg 388

<210> 19808
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B10

<400> 19808

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gtcgccgcaa cggcgtcaag ttcggcgagg ccgtgtggtt caaggccggg tgcagatctt 120
cagcgagggg gggctggact acctggaacc cgagcctgat ccacgcgcag agcatcctcg 180
ccatctgggc ctgccaggtc gtgctcatgg ggcgccatga ggggtaccgc gtcgccggcg 240
gcccgcctcg agaggtcgtc gaccgcgtct accccggcgg cagc 284

<210> 19809
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B11

<400> 19809

caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg 60
gggctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg 120
agggcttgaa ggatctcctt atgatcatga agaacaaata cggaaaccca cctatctaca 180
tcacggagaa cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg 240
ccttaaatga ctacaaaagg ctagattaca tccagcgcca catcgctact ctttaaggaat 300
caatagactt gggatcaaat gtgcaaggct acttcgcttg gtctctgctg gacaactttg 360
aatggttcgc cggttcacc gaacgttatg gcattgtcta cgtcgaccgc aacaataact 420
gcacgcgcta catgaaggag tc 442

<210> 19810

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B12

<400> 19810

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agtgacaacc tcagacctac tcgcgcagag gcaactgatg tggcaaattgc agttcttgat 120
gggagtgcgc ccattctcct tggtgctgag actctccgtg gtttatatcc ggtggagact 180
atttcaacag tgggcagaat ttgtgctgag gcagagaagg tatttaacca agatttatac 240
tacaagcgga ctgtgaagta tgtgggagaa cctatgaccc acttggagtc tattgcttct 300
tcagcagtgc gagctgcaat caaagttaag gcatcagtca tcatttgctt cacctcttct 360
ggacgagctg caaggctcat tgctaagtac agggccagca tgccctgttct atctgttgtc 420
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<210> 19811

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B2

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tgagatgatg tctgattcaa ttgacgatgt cttagacgat gaccaggccg aggaagaaac 120
tgaagaactt gctaattgagg ttctggatga gattggtgta gacattgcat cacagttgtc 180
ctcggctacc aaaggaaaaa ttgctgggaa gaaggttcag ggtgatg 227

<210> 19812
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B3

<400> 19812
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aagtgcaatc aacattgaag gcttcaagat ggaagtcatt gaaacagcat atgccgggca 120
tgcaaagggt ctttcttcta ctggtgacct caaaaaattc cctgatggta ttatatgtgt 180
tggtggcgat gggatcgtca atgaagtttt gaatggatta cttaatagag acgattttga 240
cgtggcaatt cgatttccca ttgggataat acctgctggg tctgaatatt caatggtgtg 300
gactgttctt ggcataagg atcctgtttc ttcggcaata gcttttagcta aaggggattt 360
cacac 365

<210> 19813
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-B5

<400> 19813
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tgccgtgctg gaagaagggc ggcataccgt tcaccatcaa cgggcactcc tacttcaacc 180
tggtgctggg gaccaacgtg gcgggcgccg gcgacgtgcg ctccgtctcc atccggggct 240
cccgcacgga gtggcagccc atgtcccga actggggcca gaactggcag agcgactcgt 300

acctggacag gcaggcgc

318

<210> 19814
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B7

<400> 19814

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attgtctggc ttgctagcca gagcgcaggg ctagaagtag cacatgagga tgctgcaagg 120
gtctagattc tattatgtgt ttaagggcag tactgaagtg cttgacatgc catgtcactc 180
ggagtaattt cctgggggaca aggtggaaac tctntcccct gtttttactg tatttaaact 240
tgcagttttt ctgttatgta gaaccttctg aaacctctag ctgagctagt catttggcac 300
gtcatatacc acacattgag atattcttgt tcaatttgta ttgtatgaat cagctgaatc 360
taac 364

<210> 19815
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-B9

<400> 19815

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taatcttttc ctttgctgtg taccctatgg ttggggggtt cctgtgaagt tgtacgagtt 120
tccttgctn accctttctt cttaatatat tgatacgcag ctctcctgcg ttttcgaaaa 180
aatctagccg gtaattacct attcgtcatc ctaggagaag cttcacctaa gttgatattt 240
actgaacgat ctctagtcac tatgtatata tatgtgtgtg tgtgtgtgtg tattacatta 300
actcttttcc atgtatgcag cttcactgct tggaaaaaaa tggcagacag acaacaaaga 360
agatttctta ctgtgctcaa catcggagcc ctaaccctga taatgntttg ataattc 417

<210> 19816
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C1

 <400> 19816

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 tgtggattca tcagatataa tcaatatact acagagcagg atcaacccca atgacgaact 120
 cactaatgac gaggaagcaa aatggcgaag gtgggttgat gagcaccttg tgcattgtctt 180
 atctcctaac atatatcgga caacttcaga agctctagaa tcttttgact acattgcaaa 240
 acatggt 247

<210> 19817
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-004-Q1-K1-C10

 <400> 19817

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 atgtgctagt atagcgggtg atatggttct tgcttctgcc tactcgcatg agttgccacg 120
 atatggtctt gaagttgggtc tgaccaacta tgcagctgcc tactgcactg gccttctgtt 180
 ggctcgccgt gtgctcaaga tccgtggttt ggatcaggag tacgagggca atgttgaggc 240
 cactggtgag gacttctctg ttgagccagc tgatgagagg aggcctttcc gtgctctctt 300
 ggatgttggc cttatcagga ctacaacagg gaaccgtgtc tttggtgccc tcaagggagc 360
 attggatgga ggcttgata ttcctcacag cgagaagagg tttgctggat tcaagaagga 420
 cgacaagcag ttggatgct 439

<210> 19818
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-004-Q1-K1-A12

<400> 19818

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ggcgcgcgagc agggcggtgtg gagcatcatc acccggccca tgttccagag catgctgagc 120

caccgcggcg acagcgggtg ccagggcgcc ttctacacct acgacgcctt catcgaggcc 180

gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag gcgggagctc 240

gccgncttct tcgncagac gtcccacgaa accaccggtg gatgggogac tgctccgat 300

ggaccgtt 308

<210> 19819

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-G8

<400> 19819

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caggtgtggc caggcgctgg caagctgcc aactggcacg agtaccacca gtggaagccg 120

acgaagctgt ctgctcttgt gcccggcctc gacgctgatg gctacgatct tcttgagaaa 180

ttgctggaat acgagccggc gaagcggatc cccgcgaaga aggccctgga gcaccctac 240

ttcaaagatg tgaggaaggg agatgcgcac tgactgaagc gateccacaa agggcccgcc 300

tcacgagttg acatatatat acgtgtgtgt cgctgtgtcg agcatgattg ccctgaagca 360

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<210> 19820

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-G9

<400> 19820

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tcacaacgca gggcagtaaa acattnatca accatggtca ttacatactt ataactgata 120

caaccattat taaccctata ctatagatcc atttaccctt taagtttgct aataatacaa 180
aatatt 186

<210> 19821
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H1

<400> 19821

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cgggggccgac cgcgctcctgt acctggggccc gctgtccggc cagcccccaa gctacctgac 120
cggcgagttc cccggcgact acggctggga caccgcgggg ctgtccgccg acccgagac 180
tttcgccaaag aaccgcgagc tggaggtgat ccaactgccgc tgggccatgc tgggcgcgct 240
cgggtgcgty ttcccggagc tgctcgcccg caacggcgtc aagttcggcg aggccgtgtg 300
gttcaaggcc ggggccaga tcttcagcga gggcgggctt gactacctcg gcaacccgag 360
cctgatccac gcgcagagca tcctggccat ctgggcgtgc caggtggtgc tcatggg 417

<210> 19822
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H10

<400> 19822

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aattatctaa ctccaaaaac catgaagctg gtgcttgtgg ttcttgcttt cattgcttta 120
gtatcaagtg tttcttgtac acagacaggc ggctgcagct gtggtcaaca acaaagccat 180
gagcagcaac atcatccaca acaacatcat ccacaaaaac aacaacatca accaccacca 240
caacatcacc agcagcagca acaccaacaa caacaagttc acatgcaacc acaaagacat 300
cagcaacaac aggaagttaa tgttcaacaa caacaacacc aaccgcagaa ccaccaccaa 360
caacaacaac aacagcacca acaacaacat caatgtgaag gccaacagca acatcaccaa 420
caatcacaag gccatgtgca acaacacg 448

<210> 19823
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-H11

 <400> 19823

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 ggggtgggcgt cgacatggaa cgggtggcagc ttcattcttg aggtgatgcc tcggcaagta 120
 ttgcagaagc agctgaagaa actggacttg aatcccatgg aacaggggag ctctacacaa 180
 ggtgcgccag gtggtgatgg tggcacattg ggtaaccacc accagcacac atccgatgag 240
 catatccagg actgaggaaa ttgaagctgg atgtaggatt aaattttgat gtacactgac 300
 acaacctttg gtgtcat 317

<210> 19824
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-H12

 <400> 19824

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 aacaatggcg gccagatat tttccatcct tgtgtcctt gctctttctg catgtgttgc 120
 taacgcgacc atttttcctc aatactcaca agctcctata gctgcccttc ttccccata 180
 ctttccatca atgaccgctt cagtttgtga aaaccagcc cttcaaccct acaggctcca 240
 acaagcaatc gcaacaagca acttaccttt atcacccctg ttctttcaac attcgccagc 300
 cctatctttg gtgcagtcac tg 322

<210> 19825
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-H2

 <400> 19825

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 gggcaggggt aaacaggcgt agagcagctg cccaactgca acgatccac atggaaacca 120
 gcgaagctgt ctgctctttg cccagctcta cgctgatagc tacgcatctt ttcataaatt 180
 ggggaatcaa cctccgaact gtcccatga aaagccctgg atcaccagc acttcaaaga 240
 tctgacgaca ggagatgcac actgactgaa gcgatccac aatggccga cctcacaagt 300
 cgacatatat atacgtacgc gtcactgtgt ccatcacgat tgccctgata caattctttt 360
 gctaccaatg cacactctac tttctcgtct cta 393

<210> 19826
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H3

<400> 19826

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 atcatacact tgattttact agcatgaagg aagaggagct ttacgagatt aatattcctc 120
 tgagctttgt agcttctgtt ggactagag tacatggact agcttgttgg tttgatgtat 180
 tgtttaatgg gagcactgtg caaagggtgc ttaccactgc tccaggatcc cctacaactc 240
 actggtacca actacgatgt gtgctttcac agccattgta tgtcatggcc ggccaagaaa 300
 taactggcca tcttcgtctc gtagcccata gtgctcaaag ctacacaata tacttgacaa 360
 tgtcagctaa aatgtggggg gtgggtgccg agcaaggcgg tctctacag acatctactg 420
 ggaaac 426

<210> 19827
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H4

<400> 19827

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aagaagcaag gagaacagc accatgtgca atatgctttt tgtgaatggc gccattcac 180
 tttctcccta tatctactct ctcaacagta aattcgggca tctgccagac aaagaccgtg 240
 gtgcaatcaa agaaaaactt gatccttcag ctagtggagg aatgaatggc tacattgcac 300
 tctgtgggtg ggacccgtcc cctcctgtct tcagatctcc tgtagatggg cttgaggaca 360
 tcatggataa tcaagtgata tgctcaatct acaagctttc agatccacac 410

<210> 19828
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H5

<400> 19828

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 ccctgtactt acagctggga caccgggggg ctgtccgctg acccgagac tttcggcaag 180
 aaccgctagc tggaggtgat ccactgccgc tgggccatgc tgggcgcgct cggtgctgtg 240
 ttcccgaac tggtcgccc caacggcggc cagttccgct aagccgtgtg gttcaa 296

<210> 19829
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-H7

<400> 19829

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 tcacggagga ggtcgctgcc gcggcgccgg tcggcgccgg cggctacgta ttccacgagc 180
 accacgagaa gaagaaggac cacaaggacg ccgaggaggc cagcggcgag aagaagcacc 240
 accacctctt cggctgaccg tagtaccggg cggcgcgcga acgagctagc tagctccggc 300
 gcacacaacc acacacctgt ttaattctgt actgcatgcg tgtgtaattt gatggttcac 360
 aataatgagt cctctccgg accttggtag ctgcttgctt gtggtgagtg agagtgtgag 420

actganggag aag

433

<210> 19830

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-H8

<400> 19830

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ctttgacgcc tgaagaagca aggagaaaca gtacatgtg caatatgctt tttgtgaatg 180
gcgcccatc actttctccc tatactact ctctcaacag taaattcggg catctgccag 240
acaaagaccg tggtgcaatc aaagaaaaac ttgactcttc agctagtga ggaatgaatg 300
gttacattgc actctgtggt ggggaccgt cccctcctgt cttcagatct cctgtagatg 360
ggcttgagga catcatggat aatcaagtga tatgctcaat ctacaagctt tcagatccac 420
acaagcacat ggttcgtcca ccagctggtg gtatcatacc 460

<210> 19831

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-H9

<400> 19831

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gctgcgtcgg cctcaccggc tacgtcggcg ccaaccccag gtcctcacc cctcaggcca 120
gaaagctgct ggcgngctg ctggcggtgg agtcggcgca ggacgcggtg atcaggacgc 180
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tggtggtggc gcccgagctg gggcccagg ggctgaccgt ggggaacatc atcgccggcg 360
accacctgtc gctcgcctac gaccggacgc cggaggagat cctcgggatc gtgtacggca 420

ccggtaactc cgcccagcac

440

<210> 19832

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-A1

<400> 19832

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acagtagact tgcagacggg gtacaacata gaaggctggg atgcgtacgc gttggctttt 120
caggcgacgg aagagcaggc acatcttcaa ttcataaacc ctggcatgga ggatgatcca 180
acttgtgggc ctatcctaga caacgttgcc gtcaagaagc tcttcacccc agacaaacca 240
aaggataacg tgggtgctgaa tggagacttt gaggagggtc catggatgtt ccccaacacg 300
agcttcggcg tgctgctccc aactaacctt gacgagcaaa cgtctgccat acctggttgg 360
atgatcgagt caaacgcgc cgtccggtac atagactctg atgagtacaa ggtttcccag 420
ggaaagcgtg ccattgagct tc 442

<210> 19833

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-004-Q1-K1-A10

<400> 19833

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agaggctaca gacacgccac ctgggaacgc ggatccaaga gcacacacgg atcgtacttg 180
acgaggaagg agggaggagc agtgtggctt gagctctcca gtgttgatca aagacatgtt 240
tctttctgaa cccaaaaggg agaaagatgt atgaagcgtg tatataagat cttagctagc 300
agtttgtttt catttgatg agcgatcgaa ggctgtaaaa aatgaaaaag aaaaaagaaa 360
agggaatgag aaattgacta aagctggtca ttnttcctct canaaaaanaa a 411

<210> 19834
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-G7

<400> 19834

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t t c c c c g t c t c   c c t c t c e c t c c   t c c t c e c t c t   c c t c c c t t t c   a t t c c a t g g t   c t c c t g g c g g   120
c g c a g c g c g t   c c t g g g t g t c   g t c g g c g t c g   c g t c c t c g c   t c g g c g c c g c   c g t c g g c g g g   180
g a g g c c a a g g   t c a c g c c g g a   g g c g g a t c c g   g c g g c g c a g c   a c c a c g a g c c   c g a c g a g g a g   240
c g c t g g t c g c   g c c t g e t g c c   g g a g c t g c t c   a c g g a g a t c a   t g c g c c g c g t   g g a c g c c g g c   300
g c c g a g c g c t   g g c c g n c g c g   c c g g g a c g t c   g t g g t c t g c g   c c t g c g t g t g   c c g c c g g t g g   360
c g c g a c c c g   c t g t c t c g g t   c g t g c g c c c g   c c g t c g a g t   g c g g c a g g a t   c a c c t t c c c g   420
t c g t c g t c a   a g                                     432
  
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<210> 19835
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E9

<400> 19835

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a a g a g a t t t t   c c a t c c t t a t   g t c c t t g c t   c t t t c t g c a t   g t g t t g c t a a   c g c g a c c a t t   120
t t t c c t c a a t   a c t c a c a a g c   t c c t a t a g c t   g c c c t t c t t c   c c c c a t a c c t   t c c a t c a a t g   180
a c c g c t t c a g   t t t g t g a a a a   c c c a g c c c t t   c a a c c c t a c a   g g c t c c a a c a   a g c a a t c g c a   240
a c a a g c a a c t   t a c c t t t a t c   a c c c c t g t t c   t t t c a a c a a t   c g c c a g c c c t   a t c t t t g   297
  
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<210> 19836
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F1

<400> 19836

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cctgcgagcg atgggcatcg tcgacgtcgt ctccgagttc tgctccttgc cgaggactcg 180

ccggcatctc aagaagagga agcagttcca ggtatatata aaccatcttc ttctatttct 240

gttcgggggtc tcttatccca gccagcccaa caactgaact gaacgggact cgccgcagac 300

ggtggagatg aaggtgcgca tcgactgcga aggtgctgag cgcaaggtga agaaagcgg 360

ggagggcatg aaaggcgtga gctccgtgga ggtggcgggc aagcagaaca aggtgacgg 420

cacgggctac gt 432

<210> 19837

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F11

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ccctaattgcg gttagggctg taacgatctc gtttggttac cggcggccgg ttgcggaacg 180

ggccacccaa cgcgctcctt tgagttcgtt cgactaatct accgttgact gaacttgggg 240

ctgccgccac cagaaagccc taacaagtcc tttgcctcct aactccgtca ggctcgtggc 300

cccagggttt ggtccctaac ttttaacctt caattttggc cttgattggc accacctctg 360

gaggttccac tggatgattg gattaagacc aaacctggaa ggggaccagg aag 413

<210> 19838

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F12

<400> 19838

ccaactagca acatagaaag cacaatagtg taccaacaat ggcagccaaa atattttgcc 60

tctctgatgct ccttgggtctt tctgcaagtg ctgctacggc gaccattttc cgcgaatgct 120
cgcaagctcc tatagcttcc cttcttcccc cg 152

<210> 19839
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F2

<400> 19839

ccttcaccga ggcgggggaa agcgccgccc agatcgccgt aggcaagcgg cgatcactgc 60
agctttgagc ataagtttct gcagggaggc tcgtgaagtc agtagtcgta tctggcagtg 120
gcagcacagc gcaccatgga atggctgagc tggagaacgg tgtgttggtt atcagtgcgtg 180
tgcaccgtgc tgttcttgcg cccggctgag gccattcgct ttgtgatcga tagagaagag 240
tgcttctcgc ataacgtgga gtatgagggg gatactgtcc atgtatactt cgtcgtcatc 300
aaggctgaca ccccgtagga ttacagcgaa gaaagcgttg atcttggtgt taaggatcct 360
aatggcgctc aagtcctgta ttctcgagat aagactagtg ataaagtga gttcatagtt 420
cagaagag 428

<210> 19840
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F3

<400> 19840

cttaggaaag gactgtggca tgagtttccc aacggcacat gtagaggaaa gctggcagat 60
ggctgagttc tataataaca aggttcttgt ggagtacaga aacaaagacc ctgatcatgt 120
tgaatgggct aaagcattga aggatctata tatgcctggg ttgcgggatt atgttaaaaa 180
gcactaccct cttggctctg tctggggctc tgctggaggc gctgttggtt ctcaacaaaa 240
ggctgctgct cctacaccta aagctccagc ggtaaggct cccctccac cagctcctcc 300
tgcagcgctt ctgttttagca cagagaagtc tccaaaatct tcaaagccta aagaaaggat 360
gtctgctgct ttccaagaga ttagttcaaa acctgtgact tgcagggtgc gaaagggttac 420

cgatgacatg aagtcta

437

<210> 19841
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F5

<400> 19841

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cttgcttgcg cttttgtatt cacaggaatg gcgatcattg ctctcttcat cagtaaagcg 120
gcagattacc ttgttgagaa acaggaggtg ttgttcttca aagcactgca catgaatatg 180
aagggcagcg aggccaaaat gctaggagca atggaaacaa ataggataaa gtacaaattc 240
tacactgtcg ctctgcttct tgcaatgggt attgttgctg ggactgtatt tctgtggaag 300
gttgagaagc tcagccttgt tgattccttc tactgtgtct gtgccacgat cactaccctg 360
ggttatgggg ataaaagctt ctctccaaa cttgggcgtg tttttgcagt gttttggata 420
accacaagta ctctcatcat g 441

<210> 19842
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F6

<400> 19842

ctcggcagtc ggcacgagga cgcgcgatcc cgtcaccgct cacctccttc tccaaacgct 60
gactccgctt cccgtcccca tcccgtgcg caagatcggg aggggacgaa gagaggtcga 120
ccgggaggag atgcaccgag accgaggcgt ctctgcggca gcgatacccg gtgaccggaa 180
gcggatcggc gagcctatgg acagatcgtc tccatctacg tcgtgggggt tctccggagg 240
gcgcgagaag gagcggatcg gcgtgggcaa gcagccggag atgcctcgct ccggcggcgg 300
atccaccgcc atgtccaaga gcaagctctc tgacgaatca gaaactgaca gcgaagaatc 360
agatgtgagt ggttctgatg gggaagatac ttcgtggatt tcatgggtct gtagcttaaa 420
gggcaatgaa tttttct 437

<210> 19843
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-F7

<400> 19843

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ccaaggacga cagtggctac ggcgacgagc gccggcgcgga gctgcaggcg ttcgacgaca 120
cgaagctggg ggtgaaaggc ctggtggact ccggcgtaaa gtccatcccc tccatcttcc 180
accacccgcc ggaagccctg agcgacataa tttctccggc gccgcctctg ccgccgtcgt 240
cgccctccgg cgccgccatc ccggtggtgg acctctcggt gacgcggcgc gaggacctag 300
tcgagcaagt gaggcacgcg gccgggacgg tgggcttctt ctggctggtg aaccacggcg 360
tggcggagga actgatgggc ggcatgctcc gcgngtgcg ccagttcaac ga 412

<210> 19844
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F9

<400> 19844

cccaaggaca accatatctc cttccagtgc gagagcatgg tggcgggtgga gcggcggtg 60
aaggagatcg gcatcccgta cgtgcagcgc tgcgtggagg agggcggcat caacgtggac 120
cagatcttct tacacgaacc cgacggcttc atgatcgaga tctgcaactg cgacaacctt 180
cccgtcgtcc cgctcgccgg cgaccagcaa cgcgcgccgg ccgt 224

<210> 19845
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-G1

<400> 19845

cgcagagata ggcgtcttcg tactcgcta cctccgcggc tcaaaccttt ccccttctc 60
 ccaattcccg ccgccgtcc atcccgtaac gcgacaccat gagggagtgc atttcgatcc 120
 acatcggcca ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc 180
 atggcattca ggctgacggt cagatgcccc gtgacaagac cattggggga ggtgatgatg 240
 ctttcaacac cttcttcagt gagactgggt ctgggaagca cgtgccccgt gctgtttttg 300
 ttgaccttga acccactgtc atcgatgagg tgagaactgg cacctaccgn cagctcttcc 360
 accctgagca gctcatcagt gggaaggagg atgcagccaa caactttgcc cgtggtcact 420
 acacc 425

<210> 19846
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-003-Q1-K1-G10
 <400> 19846

gagaccaact agcaacatag aaagcacaat agtgtacca caatggcagc caaaatattg 60
 tgctgcctta tgctccttgg tctttctgca agtgctgcta ccgcaaccat tttcccacaa 120
 tgctcacaag ctccatagc ttcctttctt ccccatacc ttaaccagc ggggtcttca 180
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcg 229

<210> 19847
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-003-Q1-K1-G11
 <400> 19847

ctagcaccat agaatgcaca ctagtgtacc aacaatggca gccagtagg ggcctactt 60
 atgctccttg gtccttctgc aagtactgct acggcgacca ttttcccgca ctgcttgcatt 120
 gctcctatac cttcccttct ttcaccgtac ctgtcaccag cgtgggtctac cgaatgtgaa 180
 aaccatttc ttaacccta caggatccaa caggcaatca cacctggcat attaccttta 240
 ttacccttgt tctacacca atcataagcc ctattacatc agctaccttt ggcgcatata 300

ttgacacaaa acatcaggcc acaacatcta ctacaactcg tgctagcaaa cttgatgac 360
tactct 366

<210> 19848
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G2

<400> 19848

tccgagattc gttttgtgga acttatctca tttgagaggt aaatgtattg tttctcgctt 60
gtctggcatt tctttgcaag ggaactgtaa gatgaagaaa tattgatttg aattactgtt 120
tatcaaaacc cattatcagc 140

<210> 19849
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-G3

<400> 19849

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cggggcgctt cggcgtggtc cggcgtgtg tctccggcca cgggtgacgc cttcgccgtg 120
aagtcctggt accggtcctt cctcggcgac gacctggacc gcgcgctggc ggagctggag 180
ccgaagctgg cgcggctcgc ggggggagag ggcgacggga acccgggcgt cttgcaggtg 240
cgcgccgtct acgaggacga cgctggacg cacacggtca tggacctctg cacgngccc 300
gacctgctgg actggatccg nctccggcgc ggcgcgcccg tgcccagacc cgacgccgcg 360
cgcgctcgtcg c 371

<210> 19850
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G4

<400> 19850

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 aggagggggg tggcaatggc gttgcggaat ggtgggtggg gtgggtggagc ctgtcccgcg 120
 gcggttgtgc tgggtggctgc ggccgtcgcg gcgctgctgg gcgccggggg ggcggcggcg 180
 accaagttcg acgacgtggg gcagcccagc tgggccaaac accacgtggg gtacgacggc 240
 gacctcctca agctccgcct cgactccagc tccggcggag ggttcgtgtc aaggaccaag 300
 ttctgtacg gcaaggccag cgccgacctc aagctcgtgc ccggggac 348

<210> 19851

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E7

<400> 19851

gccaaaccatc taccagcgac tcagcgagcg agagcagcac aactgcacg cagctagcta 60
 ggagcagcag cagcggcggc gatggcggcc tccatgatct cctcgtcagc tctggcggtg 120
 gcgcctcagg gcctgccgcc cctcggccgc cgcgcctcct ccttcgccgt cgtctgctcc 180
 aagaagaaga tcaagaccga caagccctac gggattgggg gtggcctgac cgtcgacgtc 240
 gacgccaacg ggagaaaggg caagggcaag ggcgtgtacc agttcgtcga caagtacggc 300
 gcgaacgtcg acggatacag cccaatctac aacgaggatg actggtctcc caccggcgac 360
 gtctacgtcg gtggaaccac tgggcttctg atctggggcg tcaccctcgc tgggatectc 420
 ggcggcggcg ccctcctcgt ctac 444

<210> 19852

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-G6

<400> 19852

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 ctagctcggg cggcagcagg cagccatcat gtcggaggag aagcaccacc acttcttcaa 120
 ccaccacaag aaggacgagg agcagcccg cggcgagtac gggactccg agaccgaggt 180

ggtcaccgcc accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia 240
gcacaagcag cacctcggcg aggccggcgc catcgccgcc ggcgccttcg cactctacga 300
gaagcacgag gcgaagaagg accccgagca cgcgcacagg cacaagatca cggaggaggt 360
cgctgccgcg gcggccgtcg gcgccggcgg ctacgtatcc cagcagcacc acgagaagaa 420
g 421

<210> 19853
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D12

<400> 19853

caaactctgca acatcaatta tctaactcca ataaccatga agctgggtgct tgtgggttctg 60
gctggcattg ctttagtata aagtgtttct tgtacacaga caggcggctg cagctgtggg 120
caacaacaaa gccatgagca gcaacatcat ccacaacaac atcatccaca aaaacaacaa 180
catcaaccac caccacaaca tcaccagcag cagcaacacc aacaacaaca agttcacatg 240
caaccacaaa aacatcagca gcaacaagaa gttcatgttc aacaacgaca acaacaaccg 300
cagcaccacc accaacaacc acaactacag caccaaccac aacatcaatg tgaaggccaa 360
caacaacatc accaaccatc acaaggccat gtgcaacaac accaacagag cccttaacca 420
caccaaggac agagccctga gcaacaa 447

<210> 19854
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D2

<400> 19854

ccctttcccg tttccccgt tcagttcagc ttcggttggc tcgccgtact cgggttggtc 60
ctgcctcgc ttcgcttctt tcctccgcag tcctcgtctc gaattcgtct gcggtgggag 120
aaatcggggc gcgaggatga ccgtgatcga catcctcacc cgggtggacg cgatctgcc 180
gaagtacgac aagtacgacg tcgacaagct caacggcgcc aacgtcgccg gcgacgaccc 240

gttcgcccgc ctctacgct ccgtcgacgc ggacatcaac caatgcgtcg ataaagcgga 300
aacggcgaag caagagaaga accgggccgc ggtgggtggcg cttaacgccg agatccggcg 360
caccaaggcc aagctcctcg aggaggacct tcccaagctg cagcgcctcg ccgttaagaa 420
ggtgaaaggg ctgacaagag 440

<210> 19855

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D3

<400> 19855

ggaccatact gtttctattc cttggtgccc ttttaaggtct catgaggttc cactctctaa 60
cgggctctgc aagaaaaact caactaatgg catggtttct gctgttacct cgatgctctt 120
atcactcgga gaggaccccc tcaggaaaga gcttttaggc actcctcagc gttatgtgca 180
gtggctgatg aagttcaaag catgtaatct actagacgtg aagctgaatg gttttacact 240
tagtaatgtt agcttatatg agaggacagg tggaggcaca actgatcatg gagcaatccg 300
atcggagctg cacttgccat tttgtgctca atgtgaacac catcttctgc ccttctacgg 360
agtagttcac aatgggtact ttggcaatgg gagcggagaa ggcattgatc ggtcgcattt 420
tcaggccgtg gttcatttct acgggtgc 448

<210> 19856

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D4

<400> 19856

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tgcaagaaat tgtcccgctg ccaaaaagga ttcttcagca cgtggagctt cgaagttacc 120
aaaagaatat gcagaacat gggactatag ccatgattat cctgttactc tcccactaag 180
gaagccctac tctggaaatc ctgaaattct ggatgaggaa gaatttggag aatcttctgc 240
cagcaagacc caagatgatg aattatcttc agcagaacaa cttggaataa tggattattg 300

cctcgaatca caagtccttt

320

<210> 19857

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D6

<400> 19857

gcaagaagtg gtacacaggt tgcatttggg caaggaaact cttattatgc aagaaatttt 60

cccatgcccc aaaaggattc ttcagcaggt ggagcttcga agttaccaa agaatatgca 120

gaaccatggg actatagcca tgattatcct gttactctcc cactaaagaa gccctactct 180

ggaaatcctg aaattctgga tg 202

<210> 19858

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D7

<400> 19858

ctctaccgtt cgtgaaccaa gcggcgggcg atggtcattt cacatccttc ctgaataggc 60

gtgcaccgtt ctggatcgct acaatatcgc gtgtgccgct gccgactcac aagatgacgg 120

actaaactgc ttaagcggct caccgaggcc ggcaaatacc tatgctgcat ggtgactcaa 180

gttactcatg atgcacattc aaggcttatt cactgggtgcc gtcaggcgcc tggctgctgg 240

gatgcataat gatgcctaatt attgcgagac cgtctgtcaa gatgacgact cactattttc 300

tggac 305

<210> 19859

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D9

<400> 19859

gtgttcctgt aaagcctaaa aaggaaaata ggcttttggg tctgcctttt gaattatctg 60

ttatgggtat tttattgctc atcgtattag gtggtttcta tgtgggtccat tgtgtatggg 120
 cggcagctga agcgtactcc gggccttcac ttgtgttgac atctc 165

<210> 19860
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E1

<400> 19860

acgcggacgc gtgggctgag aacagcagtg tctcaactga agcagagaac tcccaggag 60
 aggcttccat tgcagtgaat ggttcttcac aaacgtctac caatgggtgag caggtggatc 120
 ccaagactga aactagcaca tccaccacta acgtgcacac tgaatctcaa ggggctgatg 180
 gcagttctgg atcaaataac tcaattggta acggacctga acaaaccggt gaaactgaca 240
 ggcagtgata ccactatcta gacacgaaca ttgttttagt ataaagattc gtgttctgga 300
 gattgcagag gctagtactg caccaagata aactgttgac attgtggctt atggtgattc 360
 taagcgatac tgctgaagta caattgtgca ca 392

<210> 19861
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E10

<400> 19861

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 ggtgctgac gttgcccttg ctctcctggc gctcgctgag agcgccgcct ccagtacaag 120
 cggcggctgt ggctgccaga caccaccgtt tcatctaccg cctccgttct atatgccgcc 180
 tccgttctat ctgccgccgc agcagcagcc gcagccatgg caatacccca ctcaaccacc 240
 gcagctaagc ccgtgccagc agttcggatc ctgcggcgtc ggcagcgctg gcagcccggt 300
 cctgggcca tgcgtccagt tcctgaagca ccagtgcagc ccggcggcga cgccta 357

<210> 19862
 <211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-E11

 <400> 19862

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 cgaggtactt tggaagagtt cctagagcag ccttctatag atgctactac tttactcctg 120
 agcatattta ttccaaattg gatttcagaa ttccggggca aatttaagtt ggctatttga 180
 aacttacaga gcagcgctg gtcctcttgg caatgctggt tcttatgtaa atggtgtttt 240
 cctgggacat gtccttttgg atgaacattc agatactctg gaattgagta atctgcggtt 300
 ggcttttggg gcatatggaa cagagcatgc tattagagca acgagggtgg aggaattcct 360
 tactggtaaa tcactcactg catcagtggg acttgtggca attaaattac taagagaaac 420
 ggttgtacca atggagggaa 440

<210> 19863
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-E12

 <400> 19863

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 tctctggctc ctagtgccat tattccacag ttctctcttc cagttacttc aatgggcttc 120
 gaacaccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag cgtcttataa 180
 caaccaattg cccaatttca acaacaatcc ttggcacatc taaccataca aaccatcgca 240
 acgcaacagc aacaacaatt tctaccagca ctgagccaac tagctgtggt gaaccctgtc 300
 gcctacttgc aacagcagtt tcttgcattc aaccaattt ggctctggca aacattgttg 360
 cattccaaca accaccacca t 381

<210> 19864
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-E2

<400> 19864

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aacttgcatac aaagaaactt ggaaagggct catagccttt cagatgggtga tactaactat 120
gaagatcaca tctcttctgt gaatagtga tgccattcag acaatgaggt caataataga 180
ggacatactt caaatgatgt tgagcacatc gaaacatgct ctagtttggga taaacaagcc 240
agcgaccaaa taggaaaacc tgcaaaggaa tattctgatt cttcaaakat gtcattctcta 300
aatgcattcg aggatccaac aggaattcct cctgagtga tgccaacaaa tgttagtgtg 360
cctttattga acctgggtga caaagtattc cagctaaagc gacgggggtg gatacggaga 420
caggnttctt ggatatac 437

<210> 19865

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E3

<400> 19865

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tacaacgtgg tgcagaagaa caagcgccag tgcaatcagg accgcaagcg cgccgtgcat 120
ggggagcccg ggaccggcaa gctcaagcag cggaccgcgc ccgtctccat gtccggcaag 180
cggaagaaga agctcgagcg ccgcctcaac cggaagcaga aagaggctgc gatgattaag 240
gcgctggaga acaacatggg ggatgtcgac atgatctcag ttgaagggtc ttcagaagct 300
gcaaagggca agtcccaagt gaagttcagt gtgaagaaaa actcaagaat acagataaag 360
agattaaagg gcaaaa 375

<210> 19866

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E4

<400> 19866

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 tttagcggcg actctgctgg cggtcgcgct gacgtttcag gcctgcctcg ccgggaggag 120
 gtcaccgcg ctggtgcagg agccggccat aaccatgagg taccacaagg gcgcgctcct 180
 gtcggggccc atcgccgtca acttcatctg gtacggcgac ttctcggcgc cgcagcggtc 240
 ggcgatcacc gacttcgtgt cgtcgtgac ggcgggcgcg cagccggagc cgtccgtggc 300
 cacgtggttc aagacggcgc gcaggtaacta caccatctcc aagggtgccgt tcccggcgct 360
 gcgcctcggc tccacgccg tcgaccggaa ctgctccctc ggagggcgcc tgacggag 418

<210> 19867

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E5

<400> 19867

gcgacttcta ccaggacaca gagatgacct ggggcaatgg ccgcggcagg gtatgggccg 60
 ggggcgccgg cttgaactta cccttgaacc gaacttccgg ttccggtttc aatccaagag 120
 ccagtacctg gtcggcaaga tcgacatgca gatcaagctt gtgccaggca acttcgtggc 180
 acggtcacca acttctacct gtcgttccaa ggcgacacgc acgacgagat cgacttcgag 240
 gtccctgggca acgtgagcgg ggagccctac acgctgtaca ccaacgtgtt tacacgcgga 300
 cagaggcagc gggagcagc 319

<210> 19868

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-E6

<400> 19868

cagacgacat ggagatataa tccagaggac agtaggcggg tactatattg tacagggaag 60
 ggcggtatgac accatgaacc tcggtggaat taagaccagt tcagtagaga tagaacgggt 120
 gtgcaacaga gctgacgagt gtctgctaga aacagcagca gttagcatca aaccttccgg 180
 tgggggacca gaacatctag ccctcttggc ggtgctaaaa gatagatcgg cccagtacga 240

cgtgaatctt ctcaagagga agttccagac tgccattcag aagaacctca atcctctctt 300
 caaggtgagc tatgtcaaag tcgtcgtga gttccccgaga acggcttcga acaagctgct 360
 gaaaagggtt ctggaggatc agctcgcgca ggaactctta aa 402

<210> 19869

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-D10

<400> 19869

cccctctgtc ctcgcaagcc gccgccggcc aagtcctgtc cctctccctt gtctggttcg 60
 gatcgtcggt gctagccagg tgctggatcc gtagcggcgg cggcggccat ggacaagagc 120
 atgctcggcg acctggacgg cctccccgag gaggacaaga tgccgatggc cgccatgac 180
 gaccagctcc agatccgca cagcctgaga atgtacaatt cgctggtgga gagtgcttc 240
 acggactcgc tggacacgtt ccggcgcaag aacctggaca agcaagaaga gtcgtgcgtc 300
 cgnccgtgcg cggagaaatt cctgaagcac tccatgaggg tcggcatgaa gttcgccgag 360
 cttaaccagg gtgtggccac gccggactaa gaaacacgc 399

<210> 19870

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B3

<400> 19870

attagctcta ggctctagct agccgcgcca ctcttcgtg tagccatcag cttctcatc 60
 gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 120
 cgtggtggag accccgccgc cggcgtcgt gcccgaggag tctgcccccg ccgaggccga 180
 ggccgaggcc gaggtgctg ctctgctga tcccaggag cttcccgcg ccgagcagca 240
 ggcagccgcc gagggcggagg ccgcggctcc tgctggtgcc gaggagcccg tcgcggccga 300
 accggccgcc gagggcggagg ctgctgctcc tgctggtccc gaggagactc ctgcggtcga 360
 gc 362

<210> 19871
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B4

<400> 19871

acaggatggt gcaccaacag agtttataga atcgaagagg cgtccaaatc acttgatgtc 60
atatgaatth aaattctttc gacaaaacac tatagtggta tttatgttca gaacaatggt 120
cgtatatgat gcaccacaaa tcatccatgt tgatgctggt aatgacatgg agcacttgct 180
cggatgcaat tggctcgtat atacacatca gattgttcta ctg 223

<210> 19872
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B5

<400> 19872

ggcggacact tctaaaatag tattagcaca atatatatag tgtagtagaa gaaacagaag 60
caaggcgagg ttctattcgt gatcgtacga tttttggaag gctgcttagt tgattggtgg 120
actgggacct atctagagct gcttgtgac ctcattcctc agtaacttgt gcgtcatcta 180
tttttgccgc caaatttgct gaagtatgcc aggattctag acatgatgtg accctgcgtg 240
cttaaggaga tataagtctg caatgcagaa gattgtaacc caatacaaac aaaaaacca 300
gaagtttgtg catgtggagt tctatcattg taatctgcac attatatcat atccaagaac 360
ttgcattatt ccttttcaaa aaaaaaaaaa agggccg 397

<210> 19873
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B6

<400> 19873

acatagacgc catcctcgaa ctttattaga tgagattgga ctgctatctg tagcactccg 60

cggccatcag cccacatgct taaggatcatg tatcttagct aatctgcaat tccatagatt 120
 ttgttagcga actttatcac cttggcttgg ataatgaaga acggtgatgg gaaattagga 180
 tgcactctac atgactcaga actggctaaa cgtaaggctc gagtctatat ggtatgctga 240
 gctagacatt catgattgac tcagagcatg cctacttcga cattgaccat acggactatg 300
 atggactata cctacttgcg gaacctgtac ctaatcgta gactgggact cgcgctgaac 360
 ctaggtctta gacacttgaa ctatgg 386

<210> 19874

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-B7

<400> 19874

ctccattcca tccacgtatg tagctagagc tgccaatcgg agatacgtac atggcccgtg 60
 tcgcgtcgct gctgctcacc gtcacgtgg ctgcggcggc gtcgctgctg ctgctgcttg 120
 cgccgtcggc ggccggagctg acgcgggtgg agcaccgcc caagaacgag ggctcgctcg 180
 ccatccttgc agttggcgac tgggggcgcc gggggcagtt caaccagacc ctgctggccc 240
 agcagatggg agtggtgng gagacgttgg acatcgactt cgtcatctnc acgggcgaca 300
 acatctacga cgacggcatc gncaacacca ggcacccct cttcaaggag tgcttcacca 360
 acatctacac cgcgcagagc ctncagacgc cctggtacat cgtnctcggc aaccatgact 420
 acacgggcca cgcgct 436

<210> 19875

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B8

<400> 19875

ggccgccctt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttgg 60
 ttgttttaca gcatatcagc aaatgggtat ttatggcact tattagcatt atgtcactcg 120

ccacaagctg gattactgga aataccgatg aaggatgagt aaccctgaaa aggttttact 180
 ggcaacacat gtcttgggaag cctgagttca gctaccatca accatggggg gcacatcact 240
 tccactttctt gaacttgccg ccgccgaaca tgccgtgccc gtgcttgcca tgcttgaact 300
 tgccgtgccc gtgcttgaac ttgccgtggg ggccgtgacc atgcttgaac ttgccggggc 360
 caccataacc 369

<210> 19876
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-C1

<400> 19876

ccggattccc ggtcgacgac gcgtccggaa caaattaagc gggacactgg aaacaaagag 60
 agacatgggc cttcgcgggc gagctgttgc cctgcttctg ctctgttctg tccacggagg 120
 ccagcgagca gcagaggccg gcggggacgc gtctgtgagg gtccagggca cccgcttctg 180
 gcaggacggc aagccgttct tcgccaacgg gtccaacgcc tactggctca tgacattcgg 240
 cgccgacccc gcgcgaggag gcaaggtcac ctcggcgctc agccaggccg ccggcgccgg 300
 cctctccgtg gccaggacgt gggcgttcag cgacggcggc ggcggcgggc gcagcgcgct 360
 gcagtactct cccggccgct acaacgagaa caccttncag gggctggatt tc 412

<210> 19877
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C10

<400> 19877

gcaaaatatt ttagctgcca ttgttggtac actattgtgc ctcttatgc tccttggctc 60
 ttctgcaagt gctgctacgg cgaccatctt cccacaatgc tcacaagctc ctatagcttc 120
 ccttcttccc ccgtacctct caccaacggg gtcttcggta tgtgaaaacc caattcttca 180
 accctacagg atccaacagg caatcgcagc tggcatctta cctttatcac ccttggtcct 240
 ccaacaatca tcagccctat tacagcagtt accttgggtg catttattgg cacaaaacat 300

taaggcacaa caactacaac aacttgtgct agcaaaccctt gctgcctact ctcaacaaca 360
gcagttttctt ccattcaacc aactagctgc attgaactct gcttcttatt tgcaacaaca 420
acaactacca ttcaaccagc tatctgctgc ctacccccaa c 461

<210> 19878

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C2

<400> 19878

cagtgattcc ttccattta agtggataaa caagaaatgg aaagaagggtt ttcattgtgac 60
tgcaatggca acatcaggca atcgatggc tatagtcattg tcccgagctg ctggattttc 120
tgagcagggt gtggagttgg acttcttgta cccgagcagc ggcattcata gacgctggga 180
caatggcttc cgtattactg caatggctgc cacgatggat cagtctgcgc tgatcctaag 240
caagccaagg cgtcgcccaa gagacgagc acaagagact ctgcggacta cacagttttc 300
cagtcaacat gtcaaggaca agtgggcaa gaattctctac cttgctggga tatgctatgg 360
gcgaaccgtg gctaacatc gtccgttgct gacctaactg gtgggt 406

<210> 19879

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C3

<400> 19879

aatccacttc gccggcgatc cgtctcatct cgtcgctct cgggcgcgg cagacacggg 60
taacgcggct ccgagatcgg cgggcaggat gatgatgctg atcgattgct cgggggtgccg 120
taccctgttg cagctgccgc acggggcgcc ctgcatccga tgcgccatct gtggggccgt 180
cacgcacatc gccccgccc ctcccgccga gcccacccgc ggcgccgtac aaccggcgcc 240
gggggtggcg ccgcccgcgc cgcgggtgca cggacggaag cgcgccgtgg tgtgcgggat 300
ttcgtatcgg tactcgcggc atgagctgaa gggctgcac aacgacgcca agtgcattgc 360
ccacctgtc atgacgcgt tcaacttccc cgacgactcc atcatcatgc tcaacgaaga 420

ac

422

<210> 19880
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-C5

<400> 19880

gactagttct agatcgcagg cggtcacttg cgatctagaa ctagtgacag aaggacatac 60
acattgctag atgatttaaa aaatgtacta aacttctgta actaatacag atcgggtatgt 120
actgtaacag ggtccaagct gaacaaaaat gaactggaaa atacttagtg acgggaatat 180
gacattaaga aatgctttct gcaatacagg aaatatgata tctgggttaa gactatttgg 240
ctcaatacta atactctgac tcttaaatta tacgagtgcg actttatgaa taggtattcc 300
tg 302

<210> 19881
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-C6

<400> 19881

cggccagctg ctccgcgtac ctggccgcgg tgtgccaggt gctgggtgaag gtgggtgttga 60
ggcgggacat ctcggtcaag ctgacgtcga agcagcccg cgggggacgag aagaaggacc 120
cctacgcaga cctgtacgtg gtgcgctgga cctggctcat ggtgacgccc atcatcatca 180
tctcgtcaa catcatcggc tccgccgtgg ccttcgcaa ggtgctggac ggcgagtgga 240
cgcaactggc caaggtggcc ggcggcgtct tcttcaactt ctgggtgctc ttccacctct 300
accctttcgc caagggcatc ctggggaggc acggcaagac ccccggtgtg gtgctcgtct 360
ggtgggcctt caccttcgtc atcaccgncg tgctgtacat caacatccca cacattcacg 420
ggccccgcgg caagca 436

<210> 19882

<211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-C7

 <400> 19882

 aacaatctgg tgatgctgct ttcagcttct acatttgggc gataagatgc agccatttat 60
 attggttata gtaggggtgta tgtatatagt aggatgtacc atcaaaatcc aatgtatcat 120
 gtatagtggg taggcaatac tccgtaatta tgtgcttgta agttaataag aggccagctc 180
 gtactcctag aaaacaaaac ccgtgatcta tggcatgggg cattctcatt cccttgtagt 240
 tcaggactag tatggattgt aaattcaacg gtgaagggtg tgcaacattt attcagtaaa 300
 gtatccttgt tgaagaattt gt 322

<210> 19883
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-C8

 <400> 19883

 gagaaaatgg cgtatttgtc ccgcacagcc gccgccgtcg ccgtcgccgt gaggtcggcg 60
 gtccgctccg cacctctcac tggccgcgtc ctcggagcgc cactgccttc ccttgccctcg 120
 ccttccgctg cccggtcgcg ccgaatcctc cgcaggac 158

<210> 19884
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-003-Q1-K1-D1

 <400> 19884

 ccgattccaa tctggaggta cacgtacgcg tccgaacaat ctggtgatgc tgctttcatc 60
 ttctacattt ggtcgataag atgcagggat ttgatattgt ttatagtagg gcgtatgtat 120
 atagtaggat gtaccatcaa aatccaatgt atcatgtata gtggtttagag caatactccg 180
 taattatgtg cttgtaagtt aataataggc cagcttgtac tctagaaaa caaatcccat 240

gatctatggc atggggcatt ctcattacct tgtacttcag gactaatatg gatcgtaaata 300
tcaacagtta acgtgttgca acatttattc attaaagaat ccttggtgaa aaattttgaa 360
acacttcaat aatat 375

<210> 19885

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B2

<400> 19885

ggattccccg gcgagaccgt caccaacgac gagatcgccg ccgacctcaa ggagcacgtc 60
atcaagccccg tcatccccga gaggtacctg gacgagaaga ccatcttcca cctcaacccg 120
tcggggcgct tcgtcatcgg cgggccccac ggggacgccc gcctcaccgg ccgcaagatc 180
atcatcgaca cctacggcgg ctggggagcc cacggcgggg gcgccttctc ccgcaaggac 240
cccaccaagg tggaccgcag cggggcctac gtcgccaggc aggcgcgcaa gagcatcgtg 300
gccagcggcc tcgcccgcg ctgcctcgtg caggtgtcct acgccattcg ggtgccggag 360
cccctgtcag tgttcgtcga ctctacggc accgggacca tccccgacaa ggagatcctc 420
aagatcgtca aggagaactt cgacttcagg cccgggatga tca 463

<210> 19886

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-H9

<400> 19886

gaaaattcca ggggacgagc gctctaagcc gtttttctc gtcctcgatc cagccccgtg 60
ccgcttccag ctccgatcga tctgatccct ccccaccacc acgcccattg ccgaccaact 120
caccgacgac cagatcgccg agttcaagga ggccttcagc ctcttcgaca aggacgggga 180
tggttgcatc acgaccaagg agctgggaac tgtcatgagt tcaactggggc aaaaccctac 240
agaggctgag ctccaggaca tgatcaatga ggtcgatgcc gacggcaacg gcaccatcga 300
ttttccagag tttctcaacc ttatggctcg caagatgaag gacaccgact ctgaggaaga 360

gctcaaggag gcctttcgtg tgtttgacaa ggaccagaac ggcttcatct ctgccgncga 420
gc 422

<210> 19887
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A1

<400> 19887

ctcagagcga agctcaggta gacaaggcaa tatctttgaa gaatttcagc catcagcaga 60
tagcacctcc caagccagat atgctcgagc ttcagatcga gatcctgggtg atccttcaac 120
aagtggacct gagaaagagc tgacctctga agatgaagtg gctcgtttac tgaactgcac 180
tgaccactat tcagcattag gtttccgtcg atatgagaac atagatgtat catctcttaa 240
gagagaatac aagaaaaagg ctatgttagt ccatcctgat aagaatatgg gcaatgataa 300
agctgctgat gcatttaaaa agcttcaaaa tgcatatgag attcttcttg attcactgaa 360
acgcaagaca tatgatgatg 380

<210> 19888
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-A10

<400> 19888

gtgttcgaag cccattgaag taactggagg gaggaactgt ggaataacca attgcccaat 60
tacggcaaca atccttagca catctaacca tacaaccat cgcaacgcag cagcaacaag 120
cactgagcca cctagccgtg gtgaacccta tcgcctactt gcaacaacag ctgcttgcat 180
tcaaccact tgctntggca aacgtagctg cataccaaca acaacaacag ttgcaaca 238

<210> 19889
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A11

<400> 19889

atgcgttcgc tagcagcata gacagcacia tactgtacca acaatgacag ccaaaatatt 60
gagcttcctg atgcgcctcg gactatccgc aagtgatgct accgcaacca ttctcccaca 120
atgctcacia gctactataa cttcccttat tccccatac ctcttaccaa ccgagtcttc 180
aatgtgtgaa aacccaattg ttcaacccta caggatccaa caggcaatcg caacatgcat 240
cttaccatta tcacccttgg tccttcaaca accgttagcc ctattaaagc cggtaccttt 300
ggaccaattg gtggcaccaa acaatctggc ccaacaacta ccaccacttg tgctatcaaa 360
ccttggtgca taccctcatc cacaataagg tctttcattt gaccactgg ctgtaatgaa 420
ctctgctgat tatttgcaac aaccattacc ct 452

<210> 19890

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A12

<400> 19890

accgtcttga ttcccgagc agaccaactg cacatagaag cacaatagtg taccaacaat 60
ggcagccaaa atattttgcc tccttatgct cagtggcttt tctgcaagtg ctgctacggc 120
gaccattttc ccgcaatgct cgcaagctcc tatagcttcc cttcttcccc cgtccctctc 180
accaccggtg tcttcggtat gtgaaacccc aattcttaaa ccctccagga tcccacaagc 240
aatcgagct tgccatctaa cctttataac cctggttctt caaccattat taaccctatt 300
acaacagtta ctttttgtgc atttattggc acaaaaca 338

<210> 19891

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-003-Q1-K1-A2

<400> 19891

aactagttct ctttgtgctt ctagtccct ctgaaccatc ttaccgtaac cacctctgcc 60

aggatcataa tctgtacggt actcatctct cacttgteca ccacttcgtc cacggcccca 120
 ttgcctgcct tcttcaaagc cccaatcgaa atcaacacgg attggacgat cgtcaagcat 180
 cgttccactg atgtatttga cagcatcttc agcatcctcc ctggagtagt acagtacgaa 240
 gcagaaaccg catgggggtct tagagttctt gtcgagcccc atgatgatct tcttgatctc 300
 gccagcgcgg gagaagagct cgtaggcctg ctctnctgtg gtgtagaaag acatattccc 360
 aatgtacagc gttgtcgacg catgc 385

<210> 19892
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A3

<400> 19892
 ggatcgacat gtttatctcc ggagacgctc cgaagagcgc gtcggatttg agcttccta 60
 agggccacag cgagcttagc tctagcagct gcagcttga cggcctcctc aactccataa 120
 tcaaagtgga gaaggacgat gcttccttca gcgatgacct gggatgcgac ttgtactccc 180
 tgggtgcctg tatatgatcg ctaccttcca cgtatctgca tctgtgttaa tctcccattg 240
 tatgctgtgc agctagtgtt aatcttaggt agaattgtag ctgtgcgcct atctttgctt 300
 gctcacagcc aagaaaaaaaa aaattgatgt ctgcacgtga tgtgctagca gtaagatattc 360
 tggatttgtg g 371

<210> 19893
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-A4

<400> 19893
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 gctgaacagc aggaagacgc cgcaggcggg ggtggccgtg ctggtggcgg cggcgctgct 120
 ggcttcgtcc gcttcggcgg cgatcacctg cgggcaggtg gggtcgtcgc tggcgccgtg 180

catcccgtag gcgacgggga gggccagcgc gctccccgcg tcgtgctgca gcggcgtaa 240
gagcctcaac agcgcgggcg ggaccagcgc ggaccgccag gcggcggtgcc gctgcctcaa 300
gagcctcgcc aacagcgta agagcgtaa catgggcacc gtcgccacca tccccggcaa 360
gtgcggcgtc tccgtcggat tccccatcag catgtncacc gactgcaaca agatcagcta 420
agttacgacg ac 432

<210> 19894
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A5

<400> 19894

caaagaaggt gaaattacag tagaggaaac agatgagaaa atagaatcta aagttactgc 60
tgaacctgta atcggggaga caactgaagg tcaaactgca gctgggagaac cagttgaaga 120
agctagaaca gctgaggaca tggtagaaga tggttaaggtg ctagatgata aatctacagc 180
agctgagaaa cctgtagaga atgccacagt tgtggcacat gagaattcga ctacagatga 240
gaatactctg aaggatgcga ttgtcgcgcc accagatgca tataccacca acgccggaaa 300
aactgctatt ggtgccac 318

<210> 19895
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A6

<400> 19895

acgaactagt tgtctttgtg cttctagttc cctctgtacc atcttaccgt aaccacctct 60
agcactgtca taatctgtac ggtactcatc tctcacttgt ccaccacttc gtccacggcc 120
ccattgcctg ctttcttcaa agccccaatc gaaatcaaca cggattggac gatcgtcaag 180
catcgttcca ctgatgtatt tgacagcatc ttcagcatcc tccctggagt agtacagtac 240
gaagcagaaa ccgcacgggg tcttagagtt cttgtcgagc cccatgatga tcttcttgat 300
ctcgccagcg cgggagaaga gctcgtaagc ctgctcctcc gtggtgtaga aggacatatt 360

cccaatgtac agcgttgtcg acgcatgcag cgttgccctca tactccttct gtgtgccctt 420
gaatcggcgg tcc 433

<210> 19896
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-A7

<400> 19896

ggcaaggcag ccatgaaacc ccctcagctg ccggcagggg agggggcctc ctgggctgac 60
gaggtcaagc aggccctccg tgagaaactc cggcgctcct acggcgccgg agctgcctcc 120
gccacaccgg aggccaggcc ggccggcgaa ccaagccgtg gcgctgagtg ccgcggctcg 180
gcggccgagg accccataag gagagtcattg ttcttggtc cctgggggtca cacataagaa 240
cacaaaccgg ccggccgaga tctgggcatg caagcttgca tggccatgct ttggtcagtc 300
agatctgcaa acaaccaaac tgtaaaaaag aactggagcc tgtcttgga atcatggagc 360
ttgctgctgc ttgcacccat gaaaaacatg aacgcatgga gagctgggta actagctagg 420
tagatagata tatcatatat gg 442

<210> 19897
<211> 207
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-A9

<400> 19897

ccgggacgac ccacgcgacc gctccggagg ctccaccact agcaaccn gcagcgagcc 60
cgccccgacc acngccaaga cgaggggagg cgacngggnc gacgagaaca acggcgggac 120
cggcggggcc atcgccggag ccganaaccg naacgacgag gcggacaccc gccccacagg 180
cggaacagc aacccacgc gcgacca 207

<210> 19898
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-B1

<400> 19898

cgagacgcgtg ggggcctgag gggctgggct gaagttgaac catgagtgcc gtcgcggggtt 60
cgtcgctcgt gaacccgaac ggcgcgtctt tcatcccgcc ggcgctgctg caggtggagg 120
acttctcgcc gcagtgggtg gacctcatca ccaccaccgc ctggttccgc gaccactggt 180
ccgcgcgagca cgcaccactg gatgagatag ccgagcagct cgagttggtc gccctccttg 240
cctacgatga ggatgaggac ctcttctacg gcgagcaggc cccgcgcgcc gncgcgccc 300
ttaagacaga ttcggtgctc aaggcgctga acttgggctc cccgaagagc ggcgacgccc 360
cgcggggggtt ccgggagaaa ccaggcact ccgagaag 398

<210> 19899
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-003-Q1-K1-B10

<400> 19899

catttaacca attggaagaa gttgttggtg ctgagagtag gcagtagcta gctggctgaa 60
tggtgatagt tggtgctgca aataagcagc aacaacttct tccatttaac caattggccg 120
cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 180
cagcanaccg tgcttctctt ttgacacagc aacagttgct gcctttctac cagcagtttg 240
cggctaaccc cgcaaccctc ttacaactac aacaattggt gccctttgtc caacttgctt 300
tgacagaccg agcgggtctc taccaacaac acatcattgg tggtgcctc ttttagattg 360
cttattagtt gtaattcaat aataaagttt tttggatgat gtatgtggcc aaccagaatt 420
aagaagttac atttcagat tt 442

<210> 19900
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B11

<400> 19900

gcaacgtaga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcttccttat 60
gctcgttggt ctttctgcaa gtgttggtac cgcaaccatt ttcccacaat gtcacaagc 120
tcctatagct tcccttcttt ccccatacct ttttaacaacg gtgtctttta tgggtgaaac 180
cccaattggt taacccttca ggatccaacc aggcatgca accagcattt taccattatt 240
acccttggtc cttcaacaac cgtgagccct attacaggaa ttacctttgg gccatttggg 300
gggacaaaac attagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgcata 360
ctcttagcaa catca 375

<210> 19901

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-B12

<400> 19901

ctatcagtag catcaatcat cattcatctt attagtatag gcaccaaatac aaatctgcaa 60
catcgattat ctaactccaa aaaccatgaa gctgggtgctt gtgggttcttg ctttcattgc 120
tttagtatca agtggttctt gtacacagac aggcggtgc agctgtgggc aacaacaaag 180
ccatgagcag caacattatc cacaacaaca ttatccacaa aaacaacaac atcaaccacc 240
aacacaacct caccagcagc agcaacacca accacaacaa gtatacatgc caccacaaaa 300
acctcagcaa caaccagaag tgcattgtca acaaccacca caaccaccgc agcaccaaca 360
accaccacca caaccacagc accaacaaca acctcaatgg gaaggcgac aacaacatta 420
ccaacaatca ccagggcatg tgcaac 446

<210> 19902

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H8

<400> 19902

cgccacaaa tgggtggacta gctgtccaga caatgggtag tgctctctca gttgcttttg 60

gttaccacagc agtccagcta ccaacacttg aaacggggctc ttcattgggca tttgggtgctt 120
 cctcgtctgc tcatgctgaa gatgagaaaa aggctgatag aggactctct cttatgggtt 180
 ctgccataag gccaggcatc gcaccaaattg tcaaatttgg aggggtctgga tcatatccgg 240
 atcttccctg gggttctacc atcggcgccg gaccaaattg cagaaccata tcagggtgta 300
 catacaagtt tggtagaaat gaggtaaaga tagtatgtgc ttgccatggc actcacatgt 360
 ctccggagga gttcatgcgg catgcaagtg cagatgctcc ggcccaagat aatagtga 419

<210> 19903

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G4

<400> 19903

cggaattccc gccgcttcta aaccatcgat ggattgacta atcaaaacac tctaatactt 60
 tcaccaacgt aataacatgt ctgtcgtgc ttattctaag caacaccaac ccgaaatgac 120
 actacatgca acccttctct cacgtcaaa agttcacct acagtataaa agatactttt 180
 taccaatgaa aagaatgcat ctatggaatt ctacaacaca actctgaata cacatacact 240
 tgtgttaccg aagatggata ttatgctcaa t 271

<210> 19904

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G5

<400> 19904

atgaaacaca ccagctgcat cattaccagc tcattccaag aacttgctcg acgcgggggc 60
 accttgacgc actacgagtc ccacatcgcg ttactcatc ctagggtctt accgtgtcca 120
 ccatggcatc aatgttagcg atcccaagtt caacattgtc tctcctggat catacatgag 180
 cgtctactac ccgtatacag agaccgtcaa gagactcact gccttccatc atgaaatcga 240
 cgagctcatc tacacctaca tcgagaactc cgaacatata ctcgtgctaa cggacacgac 300
 gaagccggtc atcttctcaa tcgcggtat cgaccggtg aataacatga caggcctgg 360

ggagatgtac tgctagaacg

380

<210> 19905

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G7

<400> 19905

agaacacagg gcacacgcac tacacgcacg gtacgcagat acatatagtg agaggatggc 60
tatagcttgc acatctatatt aactaactaa ctaactgact agctagctcg atccgcagag 120
caaagcgaaa gcagcaagaa gcaaagcaat ggagaaccct gctagtgcgc tagtgctacc 180
agcgcagttc accaaactca ccttggtaaa cctgtacatc cgtcgagccg ggccgcgcag 240
attcgagata acccaggagg gcaggtgcaa cctggacagg atatactgtg agtaactttc 300
acgtctacga cggccgcggc cctgacacca gccttgtggc ccgcgtgcac gtgatcacca 360
gctaaatcgg gaaccctcac caactgttcg tggtcgtgtt cgacaccgac aggctcaagg 420
gctacacgct cgtcacca 438

<210> 19906

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G8

<400> 19906

ccagccagcc agccgggtcc taccgcgtag ctacgcgtagg cgtagggcgtg gccggagggg 60
cgtgtgcgag aggggaagaa atgctggagg ggagggcgcg ggtggaggac acggacatgc 120
cggcgcggat gcaggacgcg gcgacctcg cggcctcgcg cgcgctcgac ctcttcgacg 180
tcgccgactg ccgcgccatc gccggccaca tcaagacgga gtctcgacaag cggtagcgcg 240
tcgggtggca gtgcgtgggtg ggcgccaaact tcgggtgctt attcaccac acgagcggca 300
cttcatcta cttctccatg gagcgctct cttactgct cttcaaagcc gacgtcgtcg 360
cagacgtcgc cgccgtc 377

<210> 19907
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G9

<400> 19907

gagaaggata gcatgcggtc gacggtgttg gtggcgcgga gcctgcagaa ggcgtgcgtg 60
 ccgccggcct tgctctcaga cccgacgccc ggcagcctcc agcccacccg cctcgccgcc 120
 catgtcaatg gcgccggctc ctcgtgctct gtttacctcg cctctggctg ccgctgtctac 180
 aggatcgaga tacgactgga tgctagtgtg atgctgtgca aaggaaagga gagcctgtcg 240
 attcctgata atgcacaggt catcagttcg tcggttgtgg atcgctgccc acatcgttct 300
 gagatccaga gtgtagctct cgcagacggc gaagatgact gtctgattct gggaacgggtg 360
 actcatatgg tcatcttata gaatctcgtg tggacatcgt ggctgatgac atcgacagga 420
 cat 423

<210> 19908
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H1

<400> 19908

gtcatatggc tgctgttgtg aaggctaaac ctaaaactga accaccggct gacagaactg 60
 gaccaaatag ggaagcagtt gggccagcac aatttactgg taccttggtg tctaattgctt 120
 aagaaagtgc agacaatgtg gttgtggata ttgaaagacc acataacagg cagattaatg 180
 ggatcccagc atctaacgca ctgcctaggt catcagagga tattgaggat ggtgaggtcg 240
 ttggaatcat cacacttgag gatgtatttg aagaactcct acaggaggaa attgtggatg 300
 agactgatga atatgttgat gtccataaaa ggatcctagt agctgctgct gctgctgcat 360
 catcggttgc aa 372

<210> 19909
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H10

<400> 19909

ctgacatttc ggggtgcactg aacttgcagt tgatcgattc agcagcatgt actaatctgg 60
atgcttttcat gacagaactg ccacgtgata atgaacacaa gattgtaaac atcaataagg 120
aagggcacat gttgacacaa cttactatgg ctgatacttc tgatgttcct atagaagatc 180
ctcttagcat cttaaactcc agaactgatg atcatcgtgc cctagagttg agggataagg 240
agctccttgt gtcagagctg caaaatacgc ttgatcaaaa atcaaaacag ttgggtgaaa 300
ctgaaattaa acttagtgcc atgatggatg aggttaattc tctgaagaaa gaacttgaac 360
aaaccogggg tcttcttgac gaatctcaga tgaattgtgc gcacctgaa aactgtttac 420
atgaagc 427

<210> 19910

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-H11

<400> 19910

gaaccttcgg atgtaccttt tgatatttca tctgttccga aggagacaaa atcccaaccc 60
cttgcggaga aaaagtctac aggcaagaaa tcagcaggtc cggcatctgc tgtcagtgac 120
cctgtttcta cagttgatgc ttcgtatgag aagcttcttt cgtccattcc cgaattcgct 180
gattttggaa agctttttta gtcactctgca cctgtagaat tgactgaagc tgagactgaa 240
tactcagtta atgttgtgaa gcatattttt gatggacatg ttgtgctcca atacaactgt 300
accaatacaa ttctgaaca attgcttgaa caggttattg tttntgttga tgcttctgag 360
gctgatgaat ttttagaagt tgcttcgaag cctttagaat cattaccata tgattctcct 420
gggcagacct ttgtcg 436

<210> 19911

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H12

<400> 19911

cgagggcatg gaggaggggg agttctccga ggcacgcgag gacctggccg ccctggagaa 60
ggactacgag gaggtcgccg cagagggcgg cagtgatgac ggcgacgagg aggaggaata 120
ctgatctgct tgcataaatt tgtttggctg tcgagccagg ttgtgggtgtt gaaaaacctt 180
tgtttgtgtc ctgggtaatt tttgggtgtt tcttccatc atcacttgct gaactgctct 240
agtatttgca tttgtaattg aagtctgtcg ctttaagcac tcttggttct 290

<210> 19912

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H2

<400> 19912

gttcatggcg acgtccatgc tctccgccac cacgggtgcca ctccagcagg tccagggggg 60
cggcctgtcc gagttctccg gcctcgtagc gagctccgag tcgctgcca tgcccgga 120
tgccacctcc gacgaattca tgtccgcccgt ctcttcagg acccagcggg tcggcaccag 180
cggcgggcggg ccgagggcggg cgccgacgga ggccaagctc aagggtggcca taaacgggtt 240
cggccgcatc gggcgcaact tctgcggtg ctggcacggg cgcggcgacg actcgccct 300
cgacgtcatc gccatcaacg acaccggggg cg 332

<210> 19913

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H3

<400> 19913

gactatggac cactogaacg ctttaagggc catgtaaact gtaatggat gaacgtaggt 60
agagattcca gggatcacia gccttcacac aactgacatg agaactgtta cgagcctgca 120
tacgctgagt cagaactcta tgtgacacgt gttctatatg atatgaaccg aaaggaggaa 180
atgtctctga ggaaggcgta ccactaaacg gatcagaccc tgaaagacaa tcacaacact 240

catgagaagt tggcgcataa agttgatact atgacacaag ctctggagtc acatgccaat 300
 aaatct 306

<210> 19914
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H4

<400> 19914

ggctgtagat cacttgaacg ctataagggc catgtaaacy ggaatggtat gaacgtatct 60
 accgattcca gtgaagataa agattcaaàc aactcagatg agaagtgtaa cgagtttgca 120
 tctgctgagt cggaggactc ggtgtcaggt gttctatatg atatgttgca aaaggaggctc 180
 atttctctaa ggaaggcgtg ccacgaaaag gatcagagcc tgaaagacaa ggacgacgca 240
 gttgagatgt tggcaaagaa agtagatact ttgacaaaag ctatggagtc agatgccaaag 300
 aaatcgaggc gcgagctagc tgctatggag aaggagctgg cagctgtgcy cttggagaaa 360
 gagcaggata acagggcaag acgttttggt agttcaag 398

<210> 19915
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H5

<400> 19915

aaaaagaact tgaaaggaat tagcacaacc agagaaacga tttgttggct agcatgtgtt 60
 ctcttccagt attgatgttc tatgtcttct tggcctgtat ttgacacaaa ctttagttct 120
 cacagaaaca agtggtagtg tgctctatct gatcttgtca atttgttagt cacttgtcgc 180
 acaggtcagt gggagggttt ctcaattctt ttttttagttc tcatttttaa ttgtaattcc 240
 acctaaatga ttatgtttct gggctatctt tatctattca gactgttttc ttactactg 300
 cctaatttat gtttctaggc tatcttgtgt ggatttcgtg ctccagatca cctccctacc 360
 agatgagtac atcttacttc atgagaatta tcaactttat gttcttccaa aagttctaga 420
 ataaaagaga atggttgt 438

<210> 19916
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H6

<400> 19916

gcagccgccg ttgctgctgc cgcgtccaca gaatgggggg tttcgtgaag actcataaga 60
 ccaatgcgta tttcaaacgt ttccaagtga aattcaagag aaggcgggct ggcaagacag 120
 actacagggc caggataagg ctgattaacc aagacaaaaa caagtacaac acacccaaat 180
 acagatttgt tgtgcgattt accaacaagg acatcactgc ccaaatacata tctgctagta 240
 tagcgggtga tatggttctt gtttctgcct actcgcatga gttgccacga tatggtcttg 300
 aagttggtct gaccaactat gcagctgcct actgcactgg ctttctgttg gctcgccgtg 360
 tgctcaagat ccgtggtttg gatcaggagt acgagggcaa tgttgaggcc actggtgagg 420
 acttctctgt tg 432

<210> 19917
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-H7

<400> 19917

gcggcgggct ggtggtgacg gagctgagcc acatcaagga gctggtgagg cagctggagg 60
 tgcacctcgg cggctccccg gacctgtgca agcacctggc ctgcagatc ttctccctca 120
 ccgagcgctc catcggcctc atcaactcct cctccagcgg cctcgacggc gcccgccgga 180
 agcgtccgc gggcgacgcc ggctcgcct cgcgctctc ggccacgccc accagcggcg 240
 tcaccgacgg gccgttcaag aacaccaaga agaggaaggc gatggaacag cggaggcaga 300
 gggtgagctc ggccggcggc gagaaccggy tcgacgacgg ccgtagctgg aggaagtacy 360
 gccagaagga gattctcgga gccaaagcacc caaggggcta ct 402

<210> 19918
 <211> 451
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G3

<400> 19918

aggcaacgaa gttaatgatg atgttctatc caaagcattc tcacggtttc catccttcaa 60
catggcaagg gttgttagag ataagaggac tggcaagact aaaggttatg gatttgtgag 120
cttttcaaac cctactgact tggctgcagc aataaaagag atgaatggaa agtatgttgg 180
gaatcgccct attaaattgc gtaagagtaa ctggaaggag aggacagatg ttgaggctct 240
gcaaagacaa agaattcatg tccaaaggaa gcctaaaatt cccaagaaga gtgttcttca 300
caagtagaga tatataggcc ctaccgaggg tgaagggcag ctcatggatg cgttgctgcc 360
ttgggatgat gctacttctg gaatgtcttc actctctgca ctactagggg ggcggaaatc 420
acgcaaaggg ctgttggttc atgcaaattg c 451

<210> 19919

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-E9

<400> 19919

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ttcaagctcg acactctgct gaaactgggtg gatgtcaaag gcaccgatgg gcacacgacc 120
cttctgcact tcgtggtaca ggagatgac cggaaggagg gcgcccgtgt gtccgccagc 180
accagacaa ctccaagaac ccaggcaaac cctctacgag aggagctgga gtgcaagagg 240
ctaggtctcc gggtagtggg cggcctcgcc ggcgagctgg gcaacgtgaa gaaggcggcg 300
gccatggact cggacgtgct gagcagctac gtcgccaaac tcgcgggagg gatagagaaa 360
gtgaccgang tgctgcggct gaacgaggag etc 393

<210> 19920

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F1

<400> 19920

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aagctcgaga acaagaacga cttcgacctc ggcctcaacc tgctcgagta cgagatgtgg 120
ctcggcgacg acagcatcgc ctccgccgag ctcacacaga cagtcaagat cgagaagcag 180
gggatcacca ggatgcaggt gcccttcagc ttcaggccca aggacttcgg atccgctgtc 240
tgggacatga tcaggggaag gggcacggga tacaccatca agggaaagat cgatgtcgac 300
actcccttcg gcaacatgaa gctgcccata agcaaagagg gtggaaccac ccgcctcaag 360
aaggaggacg acgatgacga cgacgacaac tgaagtgagg actgctgggg cgctgctgtt 420
acctttcacg aaacgcagcg 440

<210> 19921

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F10

<400> 19921

gtccacgagt gcatattcca atgccagtcc gatcgtgagc tcagctcacc tccggtcgtc 60
ctctccccgc acgcaccacc accagcagca gtccatcacc atgtgcggcg ccctgctcat 120
cacgctgata ctgcggggcg tgccctctc cttgagcggc agccgcgggtg cgcacccggg 180
ctactcggac tacgactaga gcgcgtagca cagtggacgc gtgcgcggag ctgatgcgac 240
gaatggagga gcgcgggtccc agctggcgca tcatcatcga catcacgcac gcaatcgtgc 300
cggacctgcc agcgttcgcc acgatggctg tcggggcgcc catgct 346

<210> 19922

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F11

<400> 19922

gttgagccat acaacagtgt actgtccacc cactccctcc tcgagcacac tgatgtggct 60
atactgctgg acaatgaggg catctacgac atctgccgcc gatcccttga cattgagcgc 120

ccaacctaca ccaacctcaa caggcttgtg tcccagggtca tctcatccct tactgcctcc 180
 ctgagggttcg atgggtgctct gaacgtggat gttaacgagt tccagaccaa cctgggtaccc 240
 tacccgagga tccacttcat gctttcttcg tacgctccag tcatctctgc tgagaaggcc 300
 taccacgagc agctctctgt ggctgagatc accaacagtg ccttcgagcc atcttccatg 360
 atggccaagt gcgacccacg ccatggcaag tacatggcct gctg 404

<210> 19923
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-F12
 <400> 19923

gtcgagctaa actaaataac accatctagc aactctctct ttcacacac tgatgtgggt 60
 atcttgttct actatgaggc catgttggac atgtgtggcc gattcctgga cattgagctc 120
 ctaatgtaca ccaacctcaa caggcttgtg tccaaagtca tgtaatcact tactgactac 180
 atgaagtgcg atgggtgctc taacgtggat gataacgagg atcacaccaa cctagtaccg 240
 tactccagga tacatgtcat gctttctacg tacgctccag tcatatctga tgagaaggcc 300
 tactacgagc agatcaatga cgttgatatc accaacagtg ccttcgagct at 352

<210> 19924
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-F2
 <400> 19924

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 ggcgggcgagg tgatggcgat ggaccctgac gcggtagcga aggccttcgt ggagcattac 120
 taccgaacgt tcgacaccaa ccgcgcggcg ctggttgggc tgtaccagga gacctccatg 180
 ctcaccttcg agggccagaa gttccagggc ccgtccgcca ttgccggcaa gctcggatct 240
 ctccctttcc aggcctgcga gcatcagatc gtcaccgtcg actgccagcc atcgggtccc 300
 cagggaggca tgctcgtctt cggttcggg tccataccca ccggccccga agagcacccc 360

atcaagttct tccaagcatt ccattt 386

<210> 19925
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F3

<400> 19925

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cgggtgtcatg aagagaagaa accttgccgc cggtagcaac gacgggaact ctgacgagct 120
tgccctggaa gttttctgcc cgggtgtttgg cgcattcacag caaccaatta gcaagcagca 180
ggactccatc tcttccgtca ccaagatcgg actatggggc ggacagggag ggtcggcaca 240
ggacatcacg gcagagcagc caccacggcg tctgcacagc atcacgtcc gcgctggcgt 300
tgccgtcgac tccatcgagt tcacctacac cgacgacgct gggcagaggc gcaactgctgg 360
gcgggtggggg ggacttggcg gcaatgttcg aacgatcgac cttggcgacg cataggatgt 420
ca 422

<210> 19926
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F4

<400> 19926

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ttgaccaacg tggtgacatg gctgtggctg cttgggctga gcaacagcaa cgcgaaatga 120
cgctacgggc acggcgtctc tcacgtcaa aggttgacct tgaggaagaa aggaagctat 180
ttgccaagga aaagaaggca tctatggaat tctacagcac aactctgaag agacataccc 240
ttgtgttacg gaagagggat attatgcgca agaaggcaga ggaggagaag gataaggaga 300
tcagtagact tctaaccgcc gaaaggcctt gagttggata cagatgaaga ttaaaaccag 360
aattttcttg ggtaacgctt ttgatac 387

<210> 19927
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-F5

 <400> 19927

 gtcaaatcct tcagcttcaa tatttttttt tggttgcaac tagcgtgacc tcatatgccg 60
 tttatcacag gctctacaat gggtaccacg atctatcgtc catatcatcg cattgctcaa 120
 cttctacaca catctcttcc catatatcta tcaaatcctt ctacgatcgt cactcattga 180
 ctgcacttta ctacatata taccgctat cgatgtcctc tcacaacca atctacttat 240
 caactcgtca acacaattag atcataacca cttcttctca gtactctact tatctgcacc 300
 tggatcctat ctcgatgaat ataacacata tctcaagcac tcaactagat tcatgttg 358

<210> 19928
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-F7

 <400> 19928

 cgccactcac gcctggaagc atctggaggc gtggcacggc agccgtcgcc cgccgcacca 60
 gcagcgaact gcgtcccggt gcccgcgcg gcgaagcaca ggagagaggc ggcgagtga 120
 accgatgacg cagccgatgg atccgcccga cgtcgagatg gagatggagc ccgcgcccc 180
 gcctccggct ccgacagcgg tcggggaggg gtggagcatg ctgtcgcgcg cccgcgggct 240
 gctcgaggag ggcaaaccgt ccctcgctct gcaggcgggt ctcttggcc taagatctca 300
 aggcggtgaa caagctctca tgcagacatt gaaccgtgca cgtgaactct atgcacagag 360
 attgcaggcc agtcctagtg ttgatgagct tgctct 397

<210> 19929
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-F8

 <400> 19929

attggattgc attttccagc atatcccagt aaaggccgct gcgccgagtg ggaagaaaaa 60
ggacaccgag ctagcgctg aagcagaagc tgctgccaaa gcttcgaaga atgccatagc 120
tacttgttct ttgcttccgt acttggagtc tctttggccc atcgggactt tgcagatggc 180
ctcacttgca ggctcactgt acgggatgat gattaggctg ctgccttctt ttgtgcgcac 240
atggtttact accttgagag accgttcatt gtcatactca atcgagtcct tcaccaaaca 300
atgggtgcagc cctcctcttc ttctagatga gttttctcag gttaaggagt ccgtatacgg 360
cgatgagaat ttctcgggta gcgtcaacag gtcggctttc gagatcggtg ctacatacaa 420
aaaggaggag acagg 435

<210> 19930
<211> 328
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-G1
<400> 19930

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aaccagatag ggaagcagtt gggccagcac agttgactga taccttggtta tctaattgctg 120
aagaaagtgc agacaatgtg gttgtggata tcgaaagacc acataacagg cagattaatg 180
ggatcccagc atctaacgca gtgcctaggt catcagagga tattgaggat ggtgaggtcg 240
ttggaatcat cacacttgag gatgtatttg aagaactcct acaggaggaa attgtggatg 300
agactgataa atatgttgat gtccataa 328

<210> 19931
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-G10
<400> 19931

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ttgtaggagc acgacttaga atcgaaagcc gacgccggag cgtccaagac ctacgctcat 120
cacgctggta ctgtccgtaa gaacggtttc atcggcatca agaaccggcc ctgaaaggtt 180

gtggtggttc ctacatcaga gactgttcac catggacatg ccaaagcca ctttgctgcc 240
 atagacatat tcaacgggaa aaagctcgaa gatattgctc attagtcaca caactgtgat 300
 attacctatg tgaaccgtac tgagtaccag ctgattgatc tat 343

<210> 19932
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-G11
 <400> 19932

gcagggccgt ttctccgct gacttggggc gtcgtcgtcg agctttctcc ggccgagggc 60
 ggcgcgaccg gacaaccagc gtgagcgcga cggcgacat gactcgtggc aaccagcgtg 120
 accgcgaccg tgagcgcgcg gcggcgcgga agcccaacgc caagaactcc cactacgggc 180
 ttaccccgga gcagcgccga gagagggaca agaaagctct ggaggagaag gctggcaaca 240
 tggcgcagca tgcagctgcc ggtggcaccg ggacctccac ggacaacatc atgaacaagg 300
 cacgtggcaa gaagtatgag gcagtggcgc gccgacacct atgtacgatc aatcgatgcc 360
 tagagcttgt aacttgtag cataactgta ggtgctatgc tagctgggtc at 412

<210> 19933
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-G2
 <400> 19933

gaaatttggc caatcttctg tttttgttac atccacactt ctcgagaatg gtggaacctt 60
 gaagagtgca agtcctgctt ctcttttgaa agaagctata catgtcatta gttgtggtta 120
 tgaagacaag acagactggg gaaaagagat tggctggatc tatggatcag ttacagaaga 180
 tattctaact ggtttcaaga tgcattgtca tggttggcgg tcaatttact gcatacctaa 240
 acgggttgca ttcaaagggt ctgcacctct gaatctttca gatcgtcttc accaggtgct 300
 tcggtgggct cctgggtcta ttgagatctt cttcagcaat cattgccctc tttggtatgg 360
 gtatggtggc cgtctgaaat ttttgaaag 390

<210> 19934
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-002-Q1-K2-E7

<400> 19934

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 gcatgtggca catctggtcg accaggctcg gcggcgggca gggcatcacg gagggcgact 120
 ggctcgacac cagcttcgtc ttctacgacg acgtcaagag cccgcggaag gtgcgcatca 180
 ggttcgcgga cgtcctggac acgcgcgacc tcggctacac gtacgacgcc gagtccgaca 240
 aggacctgcc atggctgcgc tgcaagatct cgtcgtctgt gccccacggc aaggacagcc 300
 cgccgaggtc atcgtcggcg aggaaggcgg cggcgccggt gttcccgtc gccctgacca 360
 agggccaggt ggtggaggtg ccggccgtgc ctgtgccggc caaggacccg gngaaggagc 420
 agctgctggt gatcgagggc atcgagt 447

<210> 19935
 <211> 153
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-D2

<400> 19935

 atgggacaat gccagaagt acatgcaccg cctaaggcgt cttcagaaac acgacaatga 60
 gcgatcaaca gatatatga cattcaataa agagcgcac aatcataata tgcaagagag 120
 aggtatggat aaagactttg taaaaggtat ttg 153

<210> 19936
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-D3

 <400> 19936

aagagacaat cccgataaat acatgcacca agcccgacgt cgcgatgct gctagagggg 60
 gtgctcttca tgagatcaag gagcgcatca agaagtccaa ggatgagatc catctgaagg 120
 tcaaaagcaa gggcgaggcg tccggcgagg aatacggcaa ggaggaggag gtcgaagtag 180
 agattgaggc caagtttggt gagaaggaag aggtcaaaga cacgggtgac ggtgcagcat 240
 gaaagggtag caagaagaag gatacaaagg agaaagacaa gaacaagaat gaaggtggtg 300
 acgattcatg gaaggcagag gaagacaaga agggtaaa 338

<210> 19937

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D4

<400> 19937

aagagacgat ccagaaaaat acgtctatta agcccgaggt cgcgatgct gctagagggg 60
 gggctcttcg tgagatcaag gagcgcatca agaagtccaa ggatgagatc catctgaagg 120
 tcaaaagcaa gggcgaggcg tccggcgagg aatacggcaa ggaggaggag gtcgaggtag 180
 agattgaggc caagtttggt gagaaggaag aggtcaaaga cacgggtgac ggtgcggcat 240
 gaaagggtag caagaataag gatacaaagg ataaagacaa gataaagaat g 291

<210> 19938

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D5

<400> 19938

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 tctagaacga agaaacaccc tccactacat ggccgcgctc agttcttggt ttgcttctgg 120
 aggctggca cttcaggcca cccttggtgt ttctcctcct cgccgtcgcg ggactccagt 180
 cgtcatctcc gtatcatctc atggtcgccc cccaagtctt atcggtcca ccatgaatcc 240
 ttcaggcatg gctccgatca aaagaactac acgaattcgt gcggttcac catgcctgc 300
 aaattcgta ggaggaagcc tcaccatcat cccaatacct gacctgcttt catcatggt 360

ctggatgtta cgagcggcca tagctgcagc agtgcctctt tacagaaggt tcatagcatt 420
agaaga 426

<210> 19939
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-D6

<400> 19939

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cagacttcgc taaggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 120
ttaacgagcc acagacattt acaacctttt cgtacggaac gggagttttt gccctggac 180
ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 240
ttgctggcca caacatcctt cgagcccacg ctatgactgt tgacctctac aacaagaatt 300
acaagggtag agacggccgc attgggcttg cgtttgacgt aatgngtcgc gtgccatattg 360
gaaatacatt tctcgatgaa caggcccaag aaaggtccct cgatc 405

<210> 19940
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-D7

<400> 19940

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ggccggcgct accgcccttg gtgaggccga ggtcatgcag gtcctgacga agaagtccgg 120
cgagatggcc gagtgcctcg ccgcctgcgg cgccatgctc ggtggggccg ggcccagca 180
ggaggccgcg ttgcggcgct acggccgcac catcggcgctc ctgtacgagc tcgtggacga 240
catccggagc gcatcgggaa acggcaagat gaggagcaac gccagcgtcc tgcgctcgct 300
ggggatggac cgcgcgctcg gcattgtgga agagctcaag gctcangcca agacagaggc 360
tgacaggggt ctcggataag tacggcgatc ggggtgctgcc tntatacagc ttcgtggact 420

acgcggtgga gagagggttt

440

<210> 19941

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-D8

<400> 19941

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catggccgcc gccaccatgg ctctcacctc ccgcgcgctc gtcggcaagc cggcgaccag 120
caccagggac gtcttcggcg aggggcgcat caccatgcgc aagactgctg gcaagcccaa 180
gccagcggcg tccggcagcc cctggtaagg ggccgaccgc gtctgtacc tgggcccgt 240
gtccggccag cccccaagct acctgaccgg cgagttcccc ggcgactacc gctgggacac 300
cgcgngctg tccgtcgacc cggagacttt cgccaagaac cgcgagctgg aagtgatcca 360
ctgccgctgg gccatgctgg gcgcgctcgg gtgcgtgttc cc 402

<210> 19942

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-D9

<400> 19942

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tcggccgatc gagagcgagc gcagccgcgc gccggtgaga gctttgcttg ctttcggtgt 120
tctgtaacga cttaacgaac gacggcaggc ggtagataaa ggcgcgcgat gtgcgacgcg 180
gcgcccaggt acagggggcgt gcggaagcgg ccgtggggcc ggttcgcggc ggagatccgg 240
gacccggcga agcgcgcgcg cgtctggctc ggcaccttcg actccgccga ggccgcggcg 300
cgcgctacg acgtggccgc gcgggccctg cggggcccgc tcgccaggac caacttcccc 360
gcgctcgcca ccacctcccg cncgcccgcg cccacgtgca 400

<210> 19943

<211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-E1

 <400> 19943

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 gaaatagcca gtcaagtga tagtgactaa agccaggagt catcttgagg cgaccaccta 120
 gcggtgtgac gagctaactc ttgatgcaat tgtcattgta gcagcacttc ctatatacat 180
 ggattaccat tggacataga cagatgttgg aactaggatg gtgccatgcg tacatatgtt 240
 ggacctaata cagtaatgga ccgtcggcca aattcaatcg cctctaggta ccacaccgcc 300
 taccgcgtct aaggcaaggc ttgtcgcagt agc 333

<210> 19944
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-002-Q1-K2-E11

 <400> 19944

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 ctctgcaat aatggccgct cgctcctcct cctcccagcc gcagctggtc gcggcggcgg 120
 cggctctggc agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg 180
 tgagctgcgg cgaggtgacg tcgtcgggtg cgccgtgcct cgggtacgcg atgggcagcg 240
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 cggcggcgga ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg 360
 gcggcgtcag catggccaac gccgncaaca tccccggcaa gtgcggcgctc tccggtcgcg 420
 tgcccatc 428

<210> 19945
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-E2

<400> 19945

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gagatcaaca gatagattgt cggacaggag agaacgttcc attgaaagga tgcaagagag 120
aggtacagat aaagcccttg aaaaaggtag agaggataga aataaggatg agaggaataa 180
agttaaatat gctgaacctt cgggtggaccg gacacattct tctgatgaac gattccgagg 240
gcaaagtttg ccaccgtccc cacctattgc cgcaagtttt gtacccaat cagttggcgc 300
caaccgacgt gaagaagatg ctgaccgaag gngtgggagc tccaggcatg ttcaaaggtc 360
atctnctagg cacgatgaga aagaaaggan gcagtcagag gaaaata 407

<210> 19946

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E3

<400> 19946

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gggatcaaca gatagattgt cggacaggag agaacgttcc attgaaagga tgcaagagag 120
aggtacagat aaagcccttg aaaaaggtag agaggataga aataacgatg agaggaataa 180
agttaaatat gctgaacctt cgggtggaccg gacacattct tctgatgaac gattccgagg 240
gcaaagtttg ccaccgtccc cacctattcc cgcaagtttt gtacccaat cagttggcgc 300
caaccgacgt gaagaagatg ctgaccgata ggggtgggagc tccaggcatg ttcaaaggtc 360
atcttctaag cacgatgaga aagaaaggaa gcagtcagag gagaatattt gtcatttttag 420
gatgatggga aacaca 436

<210> 19947

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E4

<400> 19947

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 gggatcaaca aatagcttga accacagcaa agaacgcatac attgatagga ttcaagatag 120
 aggtatggac gtatcctttg ataaacgtat tgacaatact aatagcgctc atacgagtaa 180
 agctaaata 189

<210> 19948
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-E5
 <400> 19948

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 tgtatcgaag ggtcgacaat ggttacgacg atcggtagtc catagcagcg gcgggacgcaa 120
 cttcgaccgg gttttcttcc catatatctg tcaaatacctt ctccggtcgc cctccatcgg 180
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 agcgcgggcg caggagaggg caaacccctt tcttctcagt actctacttg tctgcgcctg 300
 gatccccctc ggaggaagat aagacatggg tcaagcactc ggcttgattc aagtggatca 360
 atcgacagta gccatcaagg aaacttttgg gaagtttgac gaggtcctag agcctggatg 420
 ccacttcttg ccatg 435

<210> 19949
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-E6
 <400> 19949

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 aactccgca tacgcaccta cgagagtcca gtgacagcta gctagcgagc gagcgaagcc 120
 atggctgtcc gcaccctggc atcgaagaac gccctatcct tcgcgctcgg cggcgcgggc 180
 cggccgtcgg cggcgctcgc gaggggggtg acgacggtcg cgctcctcga cctctactac 240
 gacttcggcg cgctggagcc ggccatctcg ccggagatca tgcgcctgca ccaccagaag 300

caccacgcta cctacgtcgc caactacaac aaggcgctcg agcagctcga cgctgccgtc 360
gtcaagggcg acccct 376

<210> 19950
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D12

<400> 19950

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cctcgggatc ccgcgcgcgc tccatctgcc tttgctccc caccgcagg cagcgagcga 120
cagcgacggc gagggatggc caaggccagg tcgttggcga agcagaagca ggcgcagcaa 180
tcaaacggcg gcggcgccca cgcgctgtcc tccaagctcg cccggtacct cgaccggag 240
gcctacttgg acaaggacca actgctggac gcggtgact ggatccgcca ggcggtgggg 300
ctcatatgcg gcctgctctg ggggagccgc cccctcgctg gcgcgctctg gatcgacta 360
tctatggcca tctcgactgg cattatctat tggactaca cct 403

<210> 19951
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C1

<400> 19951

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gcagtttgca gccgaagaga tctcctctat ggttctcatc aagatgcgtg agatcgctga 120
agcttacctt ggcagcacga tcaagaatgc tgttgtcacg gtccctgcct atttcaacga 180
ctcgcagagg caggccacaa aggatgctgg ggtgattgct ggcctcaatg tgctgcgtat 240
catcaatgag ccaaccgctg ctgctattgc ctatggctctt gacaagaagg caaccagtgt 300
cggtgagaag aatgtcctca tttgtgacct tggaggtggg accttcgatg tctccctact 360
tacaattg 368

<210> 19952

<211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-C10

 <400> 19952

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 ttatcataaa tctgtatgaa acaagaacaa ttattcttac ttatacaaat atcaaccact 120
 aaatcatcca tactttccact aatatccata ctcatattat acaactgcat tctaaccata 180
 ttgacgtcca ttgcataaca cctctataaa tatcatcact cgtcataaaa ctatccaaat 240
 tttcattcga tcaatccgat atctaatac actta 275

<210> 19953
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-C2

 <400> 19953

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 gagggcggca tgggccacgc gatggcacgc gccttcgctg cggccgggtg cgccgtcgtg 120
 gccacggcgc ggtcacgcgg ttccatgcgc ggtctcgacg gcgacccgcg gttcctgctg 180
 ctggagctcg acgtgcgctc cgacgagagc gcgcgcgccg ccgtggcgga tgcgctgcgg 240
 gagcacggcc gcatcgacgt gctcgtcaac aacgctgggg ttacactcgt cgcaccactc 300
 gccgaggtgc ccatggagtc cttccaccag gttttcgaca ccaatgtcta tggtgcaatg 360
 aggttaattc aatctgttat cctcacatg atggaaagaa ggaaaggaac aattgtgaat 420
 gttggaag 428

<210> 19954
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-C3

 <400> 19954

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 cagtctgcac tctacgatgg cggcgccctgc ggccacggct cccgcgccct cccggtgtct 180
 ctccggtgcc aagtcgtgct gggctgctga gcgagctcc agctcgtttg ccgtctcggc 240
 gccttctact ggctccggc aaagtaggag ccgcacctc agctccgtg ccaaggttgc 300
 cactggcgtg cagagagcca gactgagga tgatggagcg aaaaggccgt ggaagctcag 360
 tgatgctcgt cttgtcctgg aagatggttc aatgtggagg gccaagtctc ttggcgcttc 420
 aggaacac 428

<210> 19955
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-C4
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 atgcgcccaa gcattggatg ctgcacaagc ttggcgagc ttttgcctcc aagccatctt 180
 ctggacctca caagtccagg gagtgccttc ctctgaccc catcatcagg aacaggctca 240
 agtatgctct gaactaccgt gaggtcattt ctatcctgat gcaacgccat gtacttggtg 300
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<210> 19956
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-C5
 <400> 19956

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 ctctggagg ggcggccagg cgggcgccag gtgcagctgt ccgaggcgga gatccggcag 180

ctctgcgtag agggcaagcg ggtgctcctc tcccagccca atctcctccg aatccacgcc 240
ccagtcaaga tctgcggtga tatccatggc cagtttgctg accttctgag attattcgat 300
ttgggtgggtt atcctccagc ttcaacttac gtattcctcg gagactatgt cgatagaggc 360
aaacagagcc tggagactat atgcttgctg ctggcgtaga aaatccggta ccccgaaaat 420
attttcct 428

<210> 19957
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-C6
<400> 19957

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ggcgctgcgg cggggagggg cgtccgcgag gcaggctcgc ttggcgggag aagcctcgcc 120
gagagacctc ctccggatgc gcgtggcgga gcgggagcgc gcgaggcggc ggcgtcgaga 180
cccgggccgc gacgagttct tcgtgcccac gccagagtcg ctggcgtggc tcgactcggc 240
ctccctcccc atggtgctca ccgacgcgc cgtggccctc ttcaccaagc tcctcatgat 300
ggaacatgaa gctacagatc aagaaaggag agagcgcaag ataaagaata gccaccctga 360
tcaaggaaca gtaaggatgc tatctcgtga agaattgggag gaggtccaag aagtc 415

<210> 19958
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-C7
<400> 19958

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atgacgcggg caccgatggg gccgatggag ggcgcggcgg tggacgagat ggtgcgccgc 120
ctcgtggagg gcggccgagg cgggcgccag gtgcagctgt ccgaggcgga gatccggcag 180
ctctgcgtag agggcaagcg ggtgctcctc tcccagccca atctcctccg aatccacgcc 240
ccagtcaaga tctgcggtga tatccatggc cagtttgctg accttctgag attattcgat 300

ttgggtggtt atcctccagc ttcaacttac gtattcctcg gagactatgt cgatagaggc 360
aaacagagcc tggagactat atgcttgctg ctggcgtaga aaatccggta ccccgaaaat 420
attttcctgg tgaggg 436

<210> 19959
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-C8
<400> 19959

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atgagagcat gtttgcacag tggagactt gcacttcttg ccatattggt ctctgggtgga 120
attgtattgc aaatcttggc ttgtgctctc tataacaact ggtggccaat gctaacagtt 180
ctcatgtacc ttatcctacc aatgcccctc atatttttcc tgggttctga tacttccctc 240
atgatgtcca atgggggaga cggctgggtg aacttcacga aattcttgac gggcgcatca 300
atagtaggga gcacgccc tccgtcgatc ctgaagcatg cgggcgtcat tggatgggga 360
gccctgacga tggagctgtc atcctttgtg gtctttggcg tggcaatcct 410

<210> 19960
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-002-Q1-K2-C9
<400> 19960

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aatatgatgt acctgttggt gacaaggccg tggatgctac atggaagaga gagcaaccac 120
gaaaggcacc atccgtgccc caagatgcag actcatctgt gaaaactgca tccaagccat 180
ctggccgccc ctgggataag atcgctgcaa atctgatggc ttgtcttatg gctattgtaa 240
tgttggttcg atcaatcaaa gatcttgcca caatgagatt gtcactctaaa ggcgggtcag 300
aagaaagcta ctgtacattg taccgggact ccgtccagaa agaggaattc cgtcctcctt 360
cgccattccc tgggttcgct gaagccgacc tattcgccgt ggtcttgcaa aggctgggag 420

agcttga

427

<210> 19961
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D1

<400> 19961

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gcgatacaca gccatggagg ggtacgaccg cgagttctgg cagttcagcg accagctgcg 120
cctgcagacg accgtcttct cgggcctctc cctcggcgac tccatctggt ctccggccac 180
cggcgccggc gggcgggcga acaacaacac cgacctactc gcggcctccg cgtcggcagc 240
cgacgccggc aagcacaacg gcgtgggcct cagcctgaat gatggagggc ccggactcat 300
tggtccggg aagctcgact tcggcggcag caaggcctgc cgctacaac 349

<210> 19962
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D10

<400> 19962

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tcggccgata gagagcgagc gcagccgcgc gccggtgaga gctttgcttg ctttcggtgt 120
tctgtaacga cttaacgaac gacggcaggc ggtagataaa ggcgcgcgat gtgcgacgcg 180
gcgccgaggt acaggggctg gcggaagcgg ccgtggggcc ggttcgcggc ggagatccgg 240
gacccggcga agcgcgcgcg cgtctggctc ggcaccttcg actccgccga ggccgcggcg 300
cgcgcctacg acgtggccgc gcggaccctg cgcggcccg cgcgcaggac caacttcac 360
gcgctcgcca tcacctccg acgtcccgcg cacacgtgca gctacggctc caccgtcgag 420

<210> 19963
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-D11

<400> 19963

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ataagcgtaa ataagtatga aagaagaata atttctgata cgttgtcaga gtttaaatcca 120
tgggatgatt catattcgac tgctaacaat tttgctagga tgcttaggga atctaaaaat 180
aatgatgtcc attgcattgc gccttcatgg aaatcaggaa ccgggatcaa agagtccaga 240
ttttcatttg ctagacagga taaccaagga aacttgtttg attcatctct cagaaactgt 300
gggtactggta ctgagcagaa tttcagtttg ctaccccgaga attctcgagg aaatatttac 360
cagaatggcc ttgcattcca atctctagag aatgaatttt caaacaataa ctctcctggg 420
gtatt 425

<210> 19964

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B9

<400> 19964

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ccacaatggg tatctcgctg gactcgatgc acaagcgccg agccaccggt ggaaagcaga 120
aggcctggag gaagaagcga aagtatgagc ttggtcgcca gccagccaac accaagttgt 180
caagcaataa gacagtgagg aggggtccgtg ttcgtggagg taatgtgaaa tggagggctc 240
ttcgccctga tactggtaac tactcatggg gaagtgaagc tgttaccgcg aagaccgta 300
tcctcgacgt ggtctacaat gcatcaaaca atgagcttgt gaggacacaa acccttgtga 360
agagtgccat tgtgcaagtt gatgctgccc cattcaagca gtggtacctc actcactatg 420
gag 423

<210> 19965

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A2

<400> 19965

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tgtacgagag gcacgaggcg aagaaggacc cggagcacgc gcagcggcac aagatcgagg 120

agggcggtggc ggcgggtggct gccctgggca gcggcggtt cgcgttcac gagcaccacg 180

acaagaagga ggccaaagac gcggcgagg acgccgggga ggaggaggag tccggccgcc 240

gcggcgaggg gaagaagaag caccacttct tcggctgac gggctgctgc tcgatcgatc 300

tacttgcgta cgtaggctgc tccccaggac cagaaggagc atgcatggag ggcgaacgaa 360

gtcacggggg ttgattgcc cgtctatgta tatcatgtgt agttactgat gatgtgtgtg 420

cat 423

<210> 19966

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A3

<400> 19966

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gctgctcgct ggtcaccatg agcaaggaga agcaccaccg cgactggatc ctccggcgct 120

gctgtggctc cctcgccgcc tgcatectga cgctggccgc cgctcgccgc ttcacgtgct 180

tcgtcatctt cctggcgctg cgcctctcca agcctgctt ctacctgcag gacgtgcagc 240

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cgcggaaccc gaacgagcgg gtgggcgtgt actacaagac gctggacgcg ttcaccacgt 360

accgcgacga ggcggtgacg gtaccctgtg cgatgccggc gatct 405

<210> 19967

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A4

<400> 19967

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cgtgcggcgg gggcgcgctg gggcgctggg caccaactgg gcgctcgtgt ccatgaacca 120
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 cggccacgac gggcccttcg ggcgcccg cgtaagagg ctccaggaca tcggcatgat 240
 cagcgccgtg cccgggatga aggcgctcga catgaacgcc gccgaggacg agatcgtgcg 300
 cctcacgcgc gaggtcgtgc ccggcatgat cgtcaccggg attgaggtcg ccgagatcga 360
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<210> 19968

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A6

<400> 19968

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 gcaactgcagc aatctttggc agagactttg gctggatctc tcggtccagc aggttcttca 180
 ggaaatgtgg caaactacat gggtcagatg gccatggcca tgggcaaact cgggacgcta 240
 gagaattttc ttcccgagc cgacaacctg cgacagcaga cgttgcatca aatgcaacgt 300
 atcctaacga tccgacaggc ttctcgtgct cttcttgcaa tccacgacta tttttcacga 360
 ttggcgcgct taagttctct gtggcttgct aggccacgtg aataacgaaa ggccgtcagt 420
 a 421

<210> 19969

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A7

<400> 19969

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 atgtgtacca ttctctgatt gaatatgtga gtgaatgggt aatactgcat acctggattt 120
 caggattcat atttgaatga atggtggata caccgcatac ctggattcca ggatcgt 177

<210> 19970
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A8

<400> 19970

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atctgcctgc ctggctgatg ctgatagaga tggggactct tgtcctgctg tctgttcttg 180
tataaatctc cgttgtcaaa tatttatcgt ccgattatct atttttaaac taaacaacga 240
caaataaaaa agaacgaggt tgcaaaagat agatacaaac caaaggatgt cgtcgctgtg 300
cgctgatctg atcactgcc a ctctgccagg tactacctca aggacgcggg gcttgacggc 360
ggcatcccg tcaacaaggc gtacgggatg acggcggttc agtaccacgg cacggacgcg 420
cgc 423

<210> 19971
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A9

<400> 19971

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tgttacgcct cgagttatga tgattcggaa agagagcgta tgtttgagca tgacctagg 180
cgagtgaag ggttggaat cagaaagaca gccgaagatg ggaactggct attcagaact 240
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ggattatatg gaaaggaac gggatcattt ctctcagatt ataactgaga tttttacatt 360
atactgtacg aggaaaagga gagacacggg ttatggcgac aatggttgaga t 411

<210> 19972
<211> 347
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B1

<400> 19972

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ccgttaacca ggcccagtc cgtggcagtg acggtggcac gctgtagcta ctgccgcagt 180

cgctcgcggtg aggcagctat ggtggcaatg cgccagtgac aagctggata tggcaagctg 240

tcgtgcggtc acggcaatgc tgcaccaggt gtataggtcat gaggatacat gatgctagta 300

gccggctaaa gcggtcttgc tctaaaggta agtgattgaa gctttca 347

<210> 19973

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B10

<400> 19973

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attccacagc ctgggggtat cagacctggt gatggtatga ttcggccttg tttggttggc 120

ccattacctg gacatcatgt tgctgtgtag cttctttttg atct 164

<210> 19974

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B11

<400> 19974

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gtgtgggtggt gcgatcctcg ccgagctcat cccgaccacg ccggcgcgcc gcggcgggcg 120

ggcgtggccc gccggcaagt gcaagcggcg gaaggcgaac gacttcgagg ccgcgttccg 180

ggagttcgac gaggactccg aggaggagga ggaggacgac gagggggtgg tggagagcaa 240

gcccgccctc gtcgtcgtcg cctcgtccgc ggcgacgcag ccaggggcg gccaggagca 300

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gggc 364

<210> 19975
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-B2

<400> 19975

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accgatgcgg gcgatgtcgt cggcggttaa tggatatgctg cgggcacggc tgcgcggggc 120
agcgcgcggt cgcgggcgcg gcggcgaggg ggccggggcg tggacgaccc caggtcacga 180
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gtgggaggat tgggagctgc cctgctacgt gacctncttc ctcaccgtcg tcatcctcgg 300
cgtcggcctc aacgcgaagc ccgaccttac aatcgagacg tgggcgccacc agaaggcgct 360
cgagcg 366

<210> 19976
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B4

<400> 19976

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acctgtgaga agccctgagc aggatggaaa agactacaag aggcctaagc ttgacggata 120
ggtctatata tatgatatttg gatgggtttt ctggaagctg acaagcaatt agctgccgga 180
ttcattgtat gatgacttat acatgttgat gagcacgtgt cttcttcgct ggtgcctgaa 240
gaagtgaaga tgccgcgcta caagattgat gcgctgcaga gagcaccaag atgatgcgcc 300
caacaactga ttgcagctga cagatcgagg aaagtcagcc agcaattatt agtaggttcc 360
atcaaacatt gcaatataat atata 385

<210> 19977
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B5

 <400> 19977

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 cttaccacta agtggttgca tccatggcaa ggatcttcaa aatactattc tagacgctaa 120
 atgcctgcaa tcattcattg ctagacctgc ttgcactatt tcttgctcct atacgatcat 180
 ctgcatctca caagtatact aagttcctaa ctctaattct aattattaac aacacactcc 240
 agaatgctac tgaactactc tacaagaaat acctata 277

<210> 19978
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B6

 <400> 19978

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 gatttgattg gattggatcc ccaattgtgt ttgccacgtc cgtgcgttcg ggcgggcggg 180
 ggagttactt tagggtttcg gcgggtgcgg tcgccgtgta ggcggtaggg ttttgccatg 240
 gcggagaagg gctgcctcaa gcggctccag aaggagtacc acgccctctg caaggaagcc 300
 gcttcgcaga tcgttgctcg cccgctgccc aacgacatac tggagtggca ctatgtactg 360
 gaaggaagta aaggaacgcc ctttgaaggt ggatattact atggg 405

<210> 19979
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-B7

 <400> 19979

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gggagttact ttagggtttc agcggctgct gtcgccgtgt atgcggtagc gttttgccat 240
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gtctacgcag atcgttgctc gcccgctgcc caacgacata ctggagtggc actatgtact 360
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acc 423

<210> 19980
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B8

<400> 19980

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cagcgcgggc taccgcgcgc tggtagccgc gctgccccga gtgttcgtcg gccgggccga 360
ccggctgcgc ggcgtcgtca aggtcatgtg cgccgcggcc aagcagtgca tgaaggataa 420
caacatgcac atggga 436

<210> 19981
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-002-Q1-K2-A12

<400> 19981

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 gtggcggcgt tggagaggag cggcggcgcg ctcccccttc tacaggcggc tatggatgtc 180
 gcccaccgca ggtccggcct gttccgcgac cttcggcggt tgagcaaggt caccgcgatg 240
 gcggcggccg tcagggcgca gatcgaagcc gaggagaggg tgaccagnga ggcgagggcc 300
 aagaggaagg cggaggagga cgagaggaag gcggatgccg atgcgcagag ggct 354

<210> 19982
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-G4

<400> 19982
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 tgctggcggg cagccaccgc agtgggggtg gatcccgccg ccgatggcg agcagtacgg 180
 cgcaccgnet ccgcgcgagc ctccggcgat gtggggccag cctccgccgc aggcgcacta 240
 cgggcaggca ccaaccctc agcagtacta cgccgcgcg ccggtgccg tgaggcgcc 300
 agccgcccc gctgcggcg agcaggtcag gacgctctgg atcgngacc tgcaatactg 360
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 gctcatccgt gacaaga 437

<210> 19983
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G5

<400> 19983
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 tgctggcggg cagccaccgc agtgggggtg gatcccgccg ccgatggcg agcagtacgg 180
 cgcaccgcct ccgcgcgagc ctccggcgat gtggggccag cctccgccgc aggcgcacta 240

cgggcaggca ccaacccctc agcagtacta cgccgcgccg ccggtgccgg tgcaggcgcc 300
agccgcccc gctgcggcgg acgaggtcag gacgctctgg atcggggacc tgcaatactg 360
gatggacgag aactacgtct tcgggtgctt ttccaacact 400

<210> 19984

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G6

<400> 19984

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gggaatcaag gccttctcag gaagcccaat tgttggggag atacgcggtc tgggactgat 120
acttggaaact gaatttgtcg acaacaaatc tccaaatgat ccatttccag ctgaatgggg 180
tgttggttcg atatttggcg cggagtgcga gaagcgtggg atgctcatca ggggtggctgg 240
ggacagcatc atgctgtcac ccccgctgat catgactccc aatgaagtcg aagaaatcat 300
aagcaaattc ggcgatgctc tgaaggccac ggaggaacgg attggagaac tgaaatccag 360
gaagaattag ccgatgctgc tggttgtaac gacggtgagg atgggtgatgg cagcagtata 420
ttttc 425

<210> 19985

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G7

<400> 19985

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tgcaatcaat gacttcagaa taagcccaat tcatgaatta gatacccgctg tctaatactg 120
atacttgaaa ctgaattagt ctacaacaaa ttttcaaata atccatttac agctgatatc 180
tagtgtacat tcgatattta acacctagtg cgagaagcat gggatgctca tcatggtggc 240
tggcgacagc atcattctga ccccccgct gatcatgact tccaatgaag tccaagaaat 300
cataaacaaa ttctg 315

<210> 19986
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-G8

 <400> 19986

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caccagcaac gagtcgctgg agaatgcctt cgctcctac ggcgagatcc tcgactccaa 180
ggtcatcacc gaccgggaga cggggaggtc tcggcgcttc ggcttcgta ccttctcctc 240
cgagaactcc atgctcgacg ctatcgagaa catgaacggc aaggagctcg acggccgtaa 300
catcacggtt aaccaggccc agtcccgtgg cgggtggcggg ggcggcggtg gctacggcgg 360
cggtcgcggc ggcggcggtc atggtggcgg gcgcctgac ggcgggttatg gcggcggtgg 420
cggc 424
  
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<210> 19987
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-H10

 <400> 19987

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acacgtgcaa taatgcactc cgatgattct caatgtgttt agctcctgca tccataaagc 120
aaaagcaaaa aaaaaatgct tgaatacgac tgacatctgc cggttgagta gcctgagttg 180
gaagtcattc tcagcttctt tgggttgggt gtaaagacta gcatgcatga catcaatgct 240
aataatgtat gcgctatgac ttatttagtg acgataattg ttgcgaatgt gtatgctact 300
aggaaagaag gtaatgtagg catactaatt ntggaaaatc tgagataccg taacaattgc 360
ttagcaccta aactaaaaag cgataccaga tgtatatatg 400
  
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<210> 19988

<211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-H12

 <400> 19988

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 aagttccgca tgctcgctggg tctccccgtc gcagcgaccg tgaactgcgc ggacaataca 120
 ggcgccaaga acctctacat catctccgtc aagggcatca agggtaggct caaccgcctg 180
 ccgtccgcct gcgtcggcga catgggtcatg gccaccgtca agaagggtaa gcccgcctc 240
 aggaagaagg tcatgcccgc cgtcattgtc cgccagcgca agctgtggcg ccgcaaggac 300
 ggagtctaca tgtacttcga agataatgct ggagtcattg tgaaccccaa gggcgagatg 360
 aaaggatctg ctatcactgg acctattggc aaggagtgcg ctg 403

<210> 19989
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-H3

 <400> 19989

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 gcgagcaaaa ctgcctgtac atagcaacca tcaacggcga ccgatccaag tagtgagcat 120
 tagtggatct actacgtaca tatatagaag gaaacagctg cagctctctc tctctcgtg 180
 tttcctgcgt gatctgcttg tgtagctact agctagctag cggagcggaa cccatgggct 240
 gcgaggagga agagaggctg ctgttcccgt ccttcgtctt tcccagagagc ttcgcggaag 300
 ccggaacccc cg 312

<210> 19990
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-H4

 <400> 19990

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 tgtgttgggtg cttctggagc tttatttggc ctgcttggat ccatgctttc tgagctactc 120
 atgaactgga ctatatactc caacaaggcc agtacaatta acagataaat atatacttta 180
 ttttatccag ctgcttgata gtcatttagc tcgtatactt aatttgctct tgcaggcagc 240
 agctataata acactcctgt ttataattgc actcaacttg gctattggga tactacctca 300
 tgctgacaac tttgctcaca ttggtggatt cgcaacgggt ttcctcttgg gttttggctc 360
 gttggcaagg cctcaatttg gctggatgga acaccacgag ct 402

<210> 19991
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-H6
 <400> 19991

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 cgccagatgc ccaggtaggg gccattcgct agctcttctt cgtgcccttc gccggcgacg 120
 agcattcacc agttgctgat gcaaggcttt caaaagttta acagtctcac ttgatgcaaa 180
 agcaacacaa tcaactctaaa ggtttggatc agtcatttca gagcatgggt tcgcggtttc 240
 catcccatca gctaagcaat ggcttgtatg tctctggccg acctgagcaa cctaaagaga 300
 aggccccagt catttgctcc tcggctatgc cgtacactgg cggngacata aagaaatctg 360
 gagaacttgg aaagatgttt gatctccata gaaaatctgg tccattgggt aatccgcctt 420
 caaggaatac t 431

<210> 19992
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-H7
 <400> 19992

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ccgcatcact cccgccagat ctctgcaaa ccagggtgt tcctgtatca gcacttcctc 120
agcgacgacg aggctaacca cctgatctcc ctcgcgagag cggagctcaa gaggtcagcg 180
gtcgccgata atatgtctgg caagagcacg ctcaagtggg tccgcaccag ctccggcacc 240
ttcctcagga agggccagga tcctattgtt gagggatatag aggacaaaat tgctgcatgg 300
acattccttc caaaagagaa tggatgaagat atccaagtcc taagatataa gcatggggag 360
aagtatgaac cacactatga ttacttcact gacaatgtta aactgtncg tgggtg 415

<210> 19993

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-H8

<400> 19993

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ctctcttgat ctcaagcatg gcggaggtgg agcagcaaca ggacacgccg aagctcttca 120
accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240
ggttccgcaa ggcgcagtgc ccgatcgttg agcgccttac aaactccctc atgatgcacg 300
ggcgcaacaa cggcaagaag gtcattgctg tccgcatcat caagcatacc ctggagatca 360
ttcacctgct caccgatgcc aaccccatcc aggtcgctcg cgacgcgatc atcaacagtg 420
gacccc 426

<210> 19994

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A10

<400> 19994

gcggcgccct tttttttttt tttttttttt tttttttttt tttttttttt tttttggtgt 60
ttttttttta ttttattttt ttatttttaa ttttatatat tttttttatt atattttttt 120
tttttatttt tttattttatt attattttta tttatatcag tatgaaaaga acataaccta 180

aagcgagtga aaaaaaaaaa aatcaaaaag acagacgaag atggggaactg tctattcaga 240
gctgttgctg atcaaacata tggagatgca gaaacttatg acaaggctag gc 292

<210> 19995
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A11

<400> 19995

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tgtggggaat cctggatctc tgcaattggg accagatggg tcgtcaagag actctattag 120
atccttaggg cagctctgga atttcagcct ctctgatcta acagcggatt tgacgagttt 180
gggagcagat ctggacgtgc tggagaacta cactggcacc cctttcctgc catcggattc 240
ggacattttg ctggattccc cagaccaaga tgatatagtc gagtattttg ctgacgccat 300
caacgggtct cgcgcagacg aagagaaacc gtagtttttc cggggtggca tggcaatggc 360
atgcattcag gttcatcatc aggcagggct gccatctcat ctcatgtagt gtaaagcagc 420
caatctaact 430

<210> 19996
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G3

<400> 19996

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tttgagcgg ggtggactcg tcgctgatgg tattctccga tgcaagaggc agggagagag 120
cgggacaggg cggcgggcgc ggcgatctc ggaggcgtcg ccgctagcgt caggccaacg 180
gatacagcag ctgtaagcac aaagccggca aagcgatacc cactggcctt atggataggc 240
atattggggc tgataatgtt agtcgctgtg tacatcttct cgttgtctct aaagccaaat 300
gggatgcttt tcgggctgat gcagacaaat ttgatagaaa aggaaaggga gaagccttgt 360
catgatccca gtattccaga cacagaaatc ccttacttgc act 403

<210> 19997
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E7

<400> 19997

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ctatatcgca cggccgccct ttcttttttt ttttcagacc aaactacgac gatgcctgtg   60
atatttatat taaatgcact aatttagtca catccagaat tacactgatt atcatgatac  120
aaggtcaacg caacttcag gtctctcaac tgggaaacta gattgttacc aacacaatct  180
cacagtagta aatcgcacta ttgcggtaaa ccctaaatca aacacaggca ttctaatacgc  240
taaagatgta tcacgccaca actgcactca tttgatcaaa tgtcactaat gtgctactaa  300
atgagattca agctcctgcc tcagggcagc aattctgtgt tgctgaagag caatcctgtt  360
ctttacatct tgtccgagca gcttcttata aaagctgtcg acaacgtggg aattccttgg  420
c                                                                 421
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<210> 19998
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E8

<400> 19998

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gccagcggca gtgacagcaa aaaaatggca tcatcaacgg gatcagagat gagcgcgga   60
atcgatgtcc agcttagtcc agaggagaaa gaaagtttag atgacatcat caaggaagct  120
gagagcgact tggagtctga ggaagtcctg gatcaatcca ttgccattgt tgccgagaat  180
gaacgtctgg acaaggactc atctgcaaaa ctcaaatctt aactgtagg tgggtgtttg  240
aagaatctga cagagggccc actgagtgtt atggataagc acatatatgc aggacacact  300
gtcaaaccat tttccagcct gattggagct ggacagtctg gtt                    343
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<210> 19999
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F1

<400> 19999

cggatttgat atcaggcaga gcaaaggaag atttgcacg tgggcacaga agagcagcta 60
gtgccagtgc tgatataggc tcatggagca tgtcaatccc taatgaatgt gaaggaaacta 120
cagaacagtt atctgatggc tcagacaaat tgcctttgcg taagatagtg aaaacatgtg 180
ctttgacaag taccttgcaa tctaagacta gaacgaagtg gaaaaatgga gctgttaggt 240
gggcaggcag taaccaacag gatgttgaag aggctatccc tctgaatact tctcagttga 300
gtcagggcctt aaaagaatgc ttgaaagg 329

<210> 20000

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F10

<400> 20000

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ttcctgggtg aaccgattca aaatgccggc gtccgatgtt gaggaccgct gcttcgtcag 120
cggcctcgcc tgtgccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180
ggtcctcgag tccaagatca tctcgcacgc ggagacgcag aggtcccgcg gcttcgggctt 240
cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300
gctggacggc cgcaacatca ccgtcaacga ggcccagtec cgcggcgggc gtggaggcgg 360
cggcgggcgc aggtacgggtg gtggccgtgg aggcggcggc tacggcggtg gcggcgccg 420
tgat 424

<210> 20001

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F11

<400> 20001

tcgacaccag caccttgccg gccacactgg tctttctcac gagccacagc acacaggcac 60

aggcaagctg tagagcttag tgcaatcata gcatgggatg gcgtcgccgt tcgccggggc 120
aactggacag acagtgacgg cctcggcggc taagaagcgg tccgtctgcg tcacgtacgt 180
cgagggcatg aacgcctaca gctgcttcag gtgcttatct aggcgaacat gtcgggggtg 240
cgcatgaccg ctgactactc cttcgtcatg gtcgtggcgt cgctc 285

<210> 20002
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-F12
<400> 20002

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tcccccgccg gcgccgtgcy atcaccgccg gcccccgccc tcacctggc cgccttgagg 120
aaaagcaagg ccaacgcctt ctctctctcc tcctctccac cgaggtcgcy ccgcgcgctt 180
gccgtcacga tggccgcgcy gctgctcgtg ctgcgccgtg cgttcctggg tggcgctggc 240
cacggcggca tcgatggggg tgcagcagct cacgtggagg tagagggctc tgaggtgacc 300
tacgggagtg tgattaagct gttgcacgag aagacaaagc accgtctgca ctcacatgat 360
gtgccgtacg gtcaggcag cggtcagcag tctgtcaccg gctttctga aggcgatgac 420

<210> 20003
<211> 423
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-F2
<400> 20003

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ttgctggact ggacgagtcg ggggctcatc tgtactacaa ctgccccagc ggggaactact 120
ttgagtacca ggcatttgcc atcggttctc gttcccaagc cgccaagact ttcttgagc 180
gcaggttcca gggctacaat gactacacc cggagcagct catcaaggac gccctctccg 240
ccataaagga gacgctgcag ggtgagaagc tatccagctc caactgcacg gtggccatcg 300
taggcaggaa ggaggacggc accatcgagc cgttcgagat gattggcgcc gcaaggatac 360

aggaacttat cgnactcatt gaggtcgccg aggaggcgcc cgcgaggag gccagctcca 420
tgc 423

<210> 20004
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F3

<400> 20004

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cctgcgagcg atgggcatcg tcgacgtcgt ctccgagttc tgctccttgc cgaggactcg 120
ccggcatctc aagaagagga agcagttcca gacgggtggag atgaaggtgc gcatcgactg 180
cgaaggggtgc gagcgcaagg tgaagaaggc ggtggagggc atgaagggcg tgagctccgt 240
ggaggtggcg gccaaagcaga acaaggtgac ggtagcgggc tacgtggacg ccaccaaagt 300
catgcgccgc gtcggcctac agacaagcaa accgggtggga gccctgcccc tacgtgccct 360
acgagatggt gcagcacccc tacgcgccg gcgcctacga c 401

<210> 20005
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F4

<400> 20005

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ccggcgagcg atgggcatcg tcgacgtcat ctccgagttc tgctccttgc cgaggactcg 120
acggcatctc aagaagagga agcagttcca gacgggtggag atgaacgtgc gcattgactg 180
cgaaggggtgc gagcgagggg tgcagaatgc ggtggagggc ctgaagggcc tgagctccgt 240
ggaggtggcg gccaaagcaga acaaggcgac gcgaacggac tacgtggacg ccaccaatgt 300
catgcgccgc gtcacctacg agacaggcaa gcagctggag cactggccct acgtgcccta 360
cgagatggtg cactacccta cagccccggc gc 392

<210> 20006
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F5

<400> 20006

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tgaccttagt tgtttgggcc ttgcattgac cttggtaaag gcattatcta aaattccgag 120
tgtctttttc tctttaatga aaacctttga tttggccaaa aaaaaagcat ccaatgctta 180
agaagcttaa gaaaaggggg gccggtttta ggattcaagc 220

<210> 20007
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F6

<400> 20007

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cgaatcgacc cgccccgatc cagatcagga gctgagggat ggacgcgaac aggcgccaga 120
gtgggatcca gcagttgctg gctgcggagc aggaggctca gcaaattgtg aatgccgcta 180
gagctgccaa gtcagcgagg ctcaggcaag caaaagagga ggctgagcgg gaaatagccg 240
aataccgtgc ccagatggag gctgagtttc agaggaaggt tgcagagagc agcggcgact 300
ccggtgcaaa cgtcaagcgt ctcgaggaag aaacggcggc gaagatcgag caactacccc 360
agcaggccgc aagcatctcc ccgcatgtca ttcagatgct tctgcggcat gtcaccaccg 420
tcaagaactg 430

<210> 20008
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F8

<400> 20008

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tatcttcagg ttgatgctct tggaagagta tctttttctt ccatacggag gcctcggtct 120
cttcttgaag tgcaccatcc ttcattctgct gatggctctc atgatcagaa gtccactgtg 180
aggccccctgg agaaagaacc aatgcttgca gcaagagtca ctgttgaaga cgccctttgc 240
cttgttcttg aggttgatga cactgaccgt ctgttgcagt ctagccagtc acaggacaac 300
attttcgaac tgaaacgaag acggcaagtc ctccttgaag gtctagctgc atcattgcag 360
ttt 363

<210> 20009

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-F9

<400> 20009

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tctcgagttg cagctatcct gtgcataccg atcctctttg cctacccta catgacgtac 120
ctgtcggaac ctggattgtc aatcgttttg aatattgctg cagtataaa gaataatctc 180
gggtgcacca tcattacagg cactttcatc cttcaaaaca atgccgtgcc tcaggaccag 240
cgaggcgctg cgaatggact gtccatgact gggatgtcct ttttcaaggc acttgctcca 300
gcaggagcat gcattgtgtt ctcatggcg cagaaacgcc agcatgcgtt tttcttccca 360
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<210> 20010

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G1

<400> 20010

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tctttcttcc cggaaagga aattgaggaa actcaatcca aacaggggtg gtgctgcatg 180
ggcagaaaga agaagagctg atatggaaat ggataagcaa ggtgaaattg ttccagcaac 240

atctgattct agttggctgc ctaatTTTtg tagtgtcttg caaatctgcc ccaggggaagg 300
atcaagggaa ggatttttga aaagccacaa gattcatgac acgaagagcg accatgactt 360
atccttgag ataaaacat atatcagcaa acgga 395

<210> 20011
<211> 399
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-G10
<400> 20011

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gaacgtgcag aatggcgagg agtggtgt caaactggaa tcagtcacat cacgacatcc 120
acagcttcac tatgaatcaa aactatacat gcttttgcag ggtggaactg ggattccaca 180
tcttaagtgg ttcggggtgg aggggcagta caatgtcatg gtgattgatc tgcttgggtcc 240
aagtctggag gacttattta actactgcag cagaaagttc tcccttaaaa cagtactaat 300
gctngctgat cagatgatca gtagagtaga atacatgcac acaaaggggt ttctacatcg 360
tgacatcaaa cctgattatt ttctcatggg ttttaagacg 399

<210> 20012
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-G12
<400> 20012

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agaagcgaag ctgctgcgcc ctaccctgcc acatctcacg tcttactggc cactaaccag 120
acgagagagc tagcgcagtt cggccgtcgg tcggtacga cttcagcaaa ggcgagcgcc 180
caccgtctga cctattacc ttctatcgg gtccaattcg gagcctggct aactccgcac 240
gtctttaccc cttttccctt ccccgaccga cgaccgtacg tccaccaccg gatccaggag 300
cgaccctcct tagtgctacg tgacgatcga cggccgcagc atcgatcacg aaggatgtct 360

agcctcgagg agccgttgga tctcgg

386

<210> 20013

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E6

<400> 20013

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atattgatat taaatgcaaa aatttagtca gctccagaat tacactgatt atcatgttac 120
aaggtcattg caacttcag gtctctcaac tgggaaacta gatggttacc gacacaatct 180
cagagtagta gatttcaata ttggggtaaa ccctaaacca aacaaaggca gtctaatacg 240
taaagatgta tcacgccaca gcagcactca tttgctcaaa tctcactaat gtactctaaa 300
agagattcaa cctcctgcct cagggcagca attttctgct gctgcaaagc aatcctgttc 360
tctacatctt gcccgcgag cttcttctca aagctgtcga caacggtgga atgccttgct 420
atgagcttct cctg 434

<210> 20014

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D2

<400> 20014

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gccgacggcc gtctcccg gcggccgct tcccgctcc accggcagcc tgggcgacgg 120
tggacggccc cctcggtt cgcgtggagg acggggagg ccacgcccgc cgcttcttca 180
tgtggggttt cgcgtgctc ccttctctt gggccatcaa ctgctgctac ttctggcccc 240
tctccgctc gtgggtgccc tctcgccc cgcccttgc cccatccgc ccctatgttg 300
tgcggtcggc aattggcttc accatctct cgttggttct ggtcacctgg gccacgacct 360
tcgtcgtcgg aggcgagcgg ttatttgggc cagtgtggaa 400

<210> 20015

<211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-D3

 <400> 20015

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cgacactcta attgaggacc accttacgca agagcccatc aatgagtacg tccagagttg  180
cgacattgtg gctttcaaca agatctagag ttcagtttct gagattgggc aacggcagcg  240
gctcagctcg tcaagtttgt gctgggatgc cagtttatcc cctctagtct attacagaaa  300
tgttgttcgg aactgagtct aatataaaca tncgtggtctg agtttattgg tgagtgggtgc  360
cagttttttt caatatacat ttatcttaan aacagcggta ctgatgtttt ttggcctaaa  420
  
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<210> 20016
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-D4

 <400> 20016

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acgtggaggg catgaacgcc tacagcggcc tcaaggggct caacaagggtg accatgctcg  180
gggtgcgcaa gaccgccgac tactccttca ccaaggctgt ggcgtcgctc agcctcgcg  240
gcaggaagcg gcgcggcgga gcgttcggcg cccagatgag gttttacgct tacacagtgg  300
ggacggttgc acgacgtgag caagcgcagc gaagccagca caaccgccgg cggacaagcg  360
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tcggcgagcg ccg                                         433
  
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<210> 20017
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D5

<400> 20017

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tacaccagct tcggcgcgat ggtggccatc gacgacccgc tgacgacagg cccgacgcgc 120
gccgcgggca ccgaggtggg ccgcgcccag tgcacctaca cgtctgcgga ccagcacacg 180
ttcggcctac taatggtgat ggacttcgtg ttcacggccg gggagcacia gggcagcacg 240
ctctccatcc tcggccgcaa cgaggtactc agcgacttac gcgagatgag catcgtcggc 300
ggcagcggaa agtcccgaat gaaccccggt tacttcaagc ccccaacct 349

<210> 20018

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D6

<400> 20018

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tcatgaagag ttctgaagcc ataggtcttg caccaagaac gaaggacaag tgcaagaaca 120
agagctgaag aagatgcagt gttaaagatg ttgccattg tatcagaaga atggccccct 180
tgcagtgcgc tgccgttttt ttttccctac tagaaatata acgcgtttta attactagtt 240
ggagggagac ctgtcttggt caactcggtc atggaccaga agcaataata tatccgtgtg 300
tagctggatt ggtgttatgt catgtcccct accgtgtctc ccagaatcta cttggtgatt 360
ttattccagt gttgttaatc aagtttatgt gattgttaag taaagggcat caatgggact 420
attattattt aaaa 434

<210> 20019

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-001-Q1-K2-D7

<400> 20019

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agcggcgacc tcaccagctc cgagcagcag cagggaggct cgtggaacca ttagtcgttt 120
tctggcagcg gcatggaggg gctgagctgg aaaacgggtgt gttgtttatc ggtgctctgt 180
gccgtgcttg tcttgcgccc ggccgagggc atncgcttcg tgatcgatag ggaagagtgc 240
ttctcgcata acgtggaata cgaggggggat actgtccatg tacccttcgt cgtcatcaag 300
gctgacaccc cgtggcatta cagcgaggag ggcgtcgatc ttgtgggttaa ggatcctaag 360
ggcgctcaag tccgggattc ccga 384

<210> 20020
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-D8
<400> 20020

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agcggcgacc tcaccagctc cgagcagcag cagggaggct cgtggaacca ttagtcgttt 120
tctggcagcg gcatggaggg gctgagctgg agaacgggtgt gttgtttatc ggtgctctgt 180
gccgtgctgt tcttgcgccc ggccgagggc atccgcttcg tgatcgatag ggaagagtgc 240
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gctgacaccc cgtggcatta cagcgaggag ggcgtcgatc ttgtgggttaa ggatcctaag 360
ggcgctcaag tncgtgattc ccgagataag actagtgaca agtttgagtt catagttcag 420
aagagaggcg 430

<210> 20021
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-D9
<400> 20021

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gctcgcggtg ctccgggtct cctcgtcgcc gctcgtcttc gcgtgggaga aggcgcaacc 120
ggagtgccac tcgtgcgagt ccggctcgcc gccctcaacc ggcgtcccc tgccccaat 180
cagcataccg tcagtcccc tgccccagt cagcataccg tcagtccac tgccccctgt 240
cagtataccg tcgggtccca tcccaccggt caccagctg ccccagtcg tcggactgcc 300
gccggtgacc ctctcttcca ttccgatcat cggaggaagc ccgccgaaga aaggccaccg 360
gaaggcgtgc ccgccgntc cgtctccnc gacgccacg cncacgcnca cgccgtctc 420
ggacaagtgc cccatcgacg cgctg 445

<210> 20022
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-E10
<400> 20022

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ctccacctc gccgccgag ccatggcgat cacagcgcca actcccgaca tctcggcga 120
gcgccagtcc ggccaggacg tccgcacgca gaacgtgatg gcttgcgggg cggtgccaa 180
catcgtcaaa tctcgtctg gccccgttg tctcgacaag atgctagtgg atgatattgg 240
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agccgccaag gttcttggtg agttggctga gtcacaagat cgtgaggtag gagatggaac 360
tacttccggt gtcacatag cggcagagtt actcaagaga ggcaatg 407

<210> 20023
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-E11
<400> 20023

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aaatcgttcc tgaacagccc cgtcgcccc aagaccacc acttctggg cctgtcgcc 120
aactggggct tcgtcatcgc gggtttggtt gacatgaaca agcctcctga aatgatattc 180

ggcaatatga cagcagccat gtgtgtgtat tctggactct ntatgagggt tgcattggatg 240
gtacagcccc gaaattatct gcttctagca tgccatgctt gcaatgaaag cgtccagctg 300
tatcagttat ctgctgggc taggtctcag gggtagctgg agaagaaaga gccagaggcc 360
aaacagtaaa gagggtatcc aacactgcag tcatttggtc aataaagaaa atatgctgtg 420
gaaaaca 427

<210> 20024
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E12

<400> 20024

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taaagagggtg ttaaaagaag ttagccaatt gttggaattg atgaacggta aaacactact 120
cgagcaagcg aggttaaatt tgctagaaaa cttagaacac gatacactta ctaaatagtg 180
aagtcataatc gttatattca aatggactta cgaagaacga gatgcagtca cgagcttacc 240
attgtgcctt tggagtcaag ttgtgctaac aatagaactc taccttagca agggatcatga 300
catagtatta gtatctatag tctactccgg tgtatagatc tgagtgtatt ttttgggagt 360
tcatcattaa aatgctgggtg atgcaatctg tcgagaggtg gaacatgggtg atactccaga 420

<210> 20025
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-001-Q1-K2-E2

<400> 20025

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cggcgaggcg aggcgaagca aagcaccggc tggctcccat ggccgtggac ctgatggggg 120
gctacgcccc gcgcccgcgc aacgaccagc tcgccatcca ggaggcggcg gcggcggggc 180
tccgcagcct ggagctcttc gtgtcgtcgc tgtccacgca ggccgcccgc cgcacaggg 240

ccgcggctca ccagctgcag aagccgcctt cgcagccgcc gatcggcgag atcgccgacc 300
 aggccgtctc caggttccgc aaggtcatct ccatcctgga ccgcaccggc cacgcccgt 360
 tccggcgggg gcccgtcgtc gagccgncac cgggtgcctgc tccggccgtc gccgtcccc 420
 ctccggcccc c 431

<210> 20026
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-E3
 <400> 20026

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 ctccaaagcc tggagctcct cgtgtcgtac gctgtccacg cacgccgacg cgccgaacaa 240
 ggccgatgct caccagctgc agaagccggc ttcgcagacg ccgatcggcg agatcgccga 300
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 gcttgcgacg cgggcccgtc gtctagcc 388

<210> 20027
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-001-Q1-K2-E4
 <400> 20027

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 ctgctgtatt cgacaaagaa aaggcccaag agcgtttata taagttatct ggaggtgttg 120
 ctgtactcaa gattggtgga gctagtgaag ctgaagttgg tgagaaaaaa gataggggtga 180
 cagatgctct aaatgctgca agggctgctg tggaggaggg cattgtgcca ggtggtggag 240
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 agattggagt tcaaattatc aagaattctt tgaaggcttc cttgatgacc atagctgcaa 360

atgctggcat tgatggagct atagtcataag ggaaactgat tgaacaagag gacctcagtt 420
gngctatgat gc 432

<210> 20028
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-E5

<400> 20028

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cgttctttga ccttgtttat tgctgcgccc gaggcgtgtg gcgcgggggg agcaggaagg 180
agaggggaag aacagaaggg gaaggcgggc ggggcccgcga tgcggtgcg gatcaaggcg 240
gtttagtagc ggttcgtgaa ggagctgcag gaggcgctgg acgcggacat ccaagaccgc 300
gtcatgaagg agcgcgagat gcagagctac atcgaggagc gcgagcgcga ggtagccgag 360
cggg 364

<210> 20029
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D12

<400> 20029

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gaccactttg tcgctcgcgc ttgctatca ccggcagacc ccaccctcac cctaaacgcc 120
ttgactaaaa gcacagacaa cgaccttata ctctactac tatacacaga cgtcacgccg 180
agcgtttggc gttacgattg ccgcgtcact ggtagtgtc aacgtggcct tcctcgtatg 240
cgctagccac tgcagtctcg atggtcgtac aagcgatca 279

<210> 20030
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B5

<400> 20030

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tatctaggtg ttccgatgca cgtgagcgcg cactgggttc agtttgtacc atgatgtaaa 180
ttacttaccg taccaggggt caatcggcaa ggaagaattg ttgtgttc 228

<210> 20031

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B6

<400> 20031

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ggttctgcgc ctctgaacct ttccgaccgt cttcaccagg tccttcgctg ggcccttggg 120
tccgtcgaaa ttttcttcag caagcactgc ccactttggt acggatacgg cggcgggcta 180
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gagcttacca atgtcgccag tatctgggtc atggcacttt tcatctgcat ctccgtgacc 360
ggcatcctgg aaatgaggtg gagtggcgtg gccatcgacg actggtggaa gaacgagcag 420
ttctgggtca tcgg 434

<210> 20032

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B7

<400> 20032

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tgtactttct ctatgaacgt atccaaccga cttgaccaa 99

<210> 20033
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B8

<400> 20033

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 cggcgtcag aaggtgaaga ctagtgtcca gaagaagaac tccaatccag tgtggaacga 240
 agtactgcag ctctcagtaa cacatcctac gaagccagtg caccttgaag tttttgatga 300
 agacaagttc acagcagacg acagcatggg tgttgctgag atcaacatta ctgacatcta 360
 cgatgctgcg aagctggacc tgaagcacgc ctctgatggg acaaggatca agacgatcta 420
 ccctgt 426

<210> 20034
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C1

<400> 20034

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 aatggaaaac ctaaaggttt tgggttttgt gagtttgaat ctgctgaagg catccttcgt 180
 gcgacacggc ttctcaacaa attgagcctt gatggtcagg aactggtgat taatataaat 240
 gatgccacca aggagtacct gaagaaacat gttgaggaaa agaagagagg cccagtgaag 300
 tcaa 304

<210> 20035
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C10

<400> 20035

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atgatgatgt gatggatgta gacatcgcg caacctcttc taaagggtca aggagtaaaa 180
aggcagggtca aggacagagt tcgagtcagc cggcatcgga tttctatgca gatctatagt 240
cgtcaagttt cctaagttag aagctgagta ctctcctcta tggttcattc tgggttactg 300
tacgcgagtg cgtgtgagag tgggcaactt tgaccgccgg tgcattggcat gccaaatgtt 360
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<210> 20036

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C11

<400> 20036

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gttcaagctg atggcatcaa gctgctcatt cccttaattt cccagcttc cacacaacag 180
tcaattcaac ttcctttatg aaacttgcct ctgcatctgg cttttatcct tttatgatgc 240
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ctctactaaa gagaaagtgg tcagagttgt tgtgttgtcc ttccgcaatt tgctggcaaa 360
gggtgcattt gctgccaga tgatcgatct tggattgcca caaatggtac aaaacttgaa 420
agctcaagca tggactgatg agga 444

<210> 20037

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C12

<400> 20037

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ggcatcggca gtgcacgatg gctctgagga tgtgggagag ctcagccgac aatgcgctca 120
agctctcggc gggcgggcggc ggagcccggg ctgctgctgc cggcccggcc ttctctatct 180
ccaggttctt ctccactgtt cacgatgggt tgaagtacac tcagtctcac gaatgggtca 240
agacgacggg cgacgtcgcc accgttggca tcacggacca tgctcagggc cacctgtgag 300
aggtggtgtt cgtggagctg ccggaaccog gcacgaaggt cgccgaggga ggacccttcg 360
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<210> 20038

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C2

<400> 20038

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cttggccacc catgggggtg cttgttccca cagttctatg accattcgtg cccaaggcg 180
aaggagattg tgcagtccat tgtggcacag gctgtggcca aggagaccag gatggcggca 240
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ttggacaaca gcagcagcat agttagttag aaagggcca acccgaacag gaactccctc 360
aggggggttg aggtgatcga ccagattaag gctgctcttg aggtgcctg cccaggcaca 420
gtctcctgtg ccgaca 436

<210> 20039

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-C3

<400> 20039

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cgacggaaga gcaggacat cttcaattca tgaaccctgg catggaggat gatccaactt 180

gtggctctat cctagacaac gttgccggca agaagctctt caccacagac aaaccaaagg 240
 ataacgtggt gctgaatgga gactttgacg aggggtccatg gatgggtccc aacacgagct 300
 tcggcgtgct gctcccaact aaccttgacg agcaaacgtc tgccatacct ggttgatga 360
 tcgagtcaaa ccgcgcgcgc cgctacatag actctgatga g 401

<210> 20040
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 20040

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 ccctggatgt tcctcatgct gcggacctgt ctgaagagga gattcaggag gatagcactg 180
 caccaccctc tgatactcat agcgaaacaa ccacggaaac aaaatctgga ggtagaacga 240
 gttgggacga actgatggag aagcttttca ccagggatga agatgggaga cttgtcgtga 300
 acaaggacgc gatggcgagg gaaattgttg tcctgtaacg agtgccgaga ctgctctgtc 360
 cgtggtagtt tattctatta gcgaactgta taaaaagagt agcttgcggt gtgatatatn 420
 taaaactgtt ttcaacaac 439

<210> 20041
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-C5
 <400> 20041

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 ccctggatgt tcctcatgct gcggacctgt ctgaagagga gattcaggag gatagcactg 180
 caccaccctc tgatactcat agcgaaacaa ccacggaaac aaaatctgga agtagaacga 240

gttgggacga actgatggag aagcttttca ccagggatga agatgggaga cttgtcgtga 300
acaaggacgc gatggcgagg gaaattgttg tcctgtaacg agtgccgaga ctgctctgtc 360
cgtggtagtt tattctatta gcgagctgta taaaagag 398

<210> 20042
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 20042

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gtgaatgcgc ccatgggtccc agctgagatc ctgtcagagc tggctccata tgtttctctg 180
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gcgatggtga ccaagggcct ggtggagccg gtgtccagca cgttcgtgaa cctggtgaaa 360
cgcgactaca cggccaaaca gcgcggcctt cgnctcacgg aggagcgcgt ggcgcacgac 420
agccccgcgg cg 432

<210> 20043
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-C9
<400> 20043

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tgggcgcgcg ccctggtgca gatctcgccc tacaccttct ccgccatcgg catcgccgtc 120
tccatcggcg tctctgttct cggcgcggca tggggtatct tcatcacggg gagcagcctc 180
atcggggccg ccatcaaagc gcccaggatc acatctaaga acctcatcag tgtcatcttc 240
tgtgaggctg ttgcaattta tgggtgaatt gtggcaatca tcctccagac aaagcttgaa 300
agtgtgcaa catcccaaat gtacgatccg gagtctcttc gagctggcta tgcgatcttt 360

gcacatctggtc ttatcggttg cttcgctaata cttgtttgcg gggatatgtgt ggggataatc 420
 ggaagcag 428

<210> 20044
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-D10
 <400> 20044

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 gctcgcagtg ctcacgctct attcgacgtc gctcgccttc gcgtgggaaa aggcgcaccc 120
 cgagtgccac tcgtgcgagt cctgctcgcc gccctcaacc ggccttcccc tgccccctat 180
 cagcataaccg tcagtccccc tgccatcagt catcataaccg tcagttccac tgccccactgt 240
 cagtataaccg tctgtccaca tcccaccggg caccatctt cccacagtcc tcagactgcc 300
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<210> 20045
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-A1
 <400> 20045

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 gaaagtttag atgagatcat caaggaagct gagagcgact tggagtctga ggaagtcctg 180
 gatcaatccc ttgccattgt tgccgagaat gaaggtctgg acaaggacgc agctgcaaaa 240
 ctcaaatatt aactgttagg tgggtgtttg aagaatctga cagagggccc cttgagtgtt 300
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<210> 20046
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A10

<400> 20046

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caccagcata acaaaaggat gagctgccct gccatggcac agctcctctc caataccctg 180
tactacaagc gcttcttccc atattacgcc ttcaatgtgc tcggtgggct tgacagcgag 240
gggaaagggt gtgttttcac ctatgatgca gtaggttcct atgagagaac tggttatagt 300
gctcaaggaa cgggatctac tttgattatg ccagtcctgg acaatcaact aaaatcacca 360
agtcctctat tgctccctgc cagggatgct gtcacaccat tgtcggaatc agaggccatc 420
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<210> 20047

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A11

<400> 20047

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attcgctca gctgacgatg caaagaatgt tcttgattgc gagcatgttc ttgggagccg 180
tacattagaa gtgaaggtag ctactccaaa ggaagaaatg aaatcacaag gatcaaagaa 240
agctacaagg atattcggtg ctgaattcc gcaatcgggt gatgagtcga tgtttcgtag 300
acattttgaa gcttttgggg aaattcttga tctttacatg ccaaaggaac atggttcaaa 360
agggcacgtt ggaattgggt ttatcacgtt tc 392

<210> 20048

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A12

<400> 20048

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catgtcgtcc accgacatcg tggcgctgtg ccaggccgtg gacctgcgcc acctcgagga 120
gaacatcaag gcgtcggatga agaacaccgt gaccaggtg gccagaagg tgctgaccat 180
gaacccctcg ggcgagctct ccagcgcccg cttcagcgag aaggagctga tcagcgccat 240
cgaccgcgag gccgtgttca cgtacgcgga ggacgcggcc agcgccagcc tgccgctgat 300
gcagaagctg cgcgccgtgc tggatggacca cgcctcagc agcggcgacg cggagcggga 360
gcccttcgtg ttctccaaga tcaccaggtt cgaagaggag ctccgcgcgg tgct 414

<210> 20049
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-A2
<400> 20049

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aatgcaagcg ctacttccac aaccgcctga agcctgcaaa gcttacctgg acagcaatgt 120
acaggaagca gcacaagaag gatatccatg ctgaggctgt caagaagagg cgccgcgcca 180
ccaagaagcc atactcgagg tccattgtgg gtgcttcctt agaggatgac cagaagaaga 240
gggctgagaa gcccgaggtc cgcgatgctg ctagagaagc tgctcttcgt gagatcaaag 300
aacgcatcaa gaagaacaag gattaaaaga aagccaaaaa agcttaagtg acc 353

<210> 20050
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-001-Q1-K2-A3
<400> 20050

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aggccttgaa ctattgaagg cagccataga aaaggctggc tacactggaa aggtggtcat 120
tggaatggat gttgctgctt ctgagttctt cggatgagaaa gacaagactt atgatcttaa 180
tttcaaggag gagaacaacg atggctcaaa caaaatttca ggcgacagcc tgaaagacct 240

gtacaagtcc tttgtttctg agtaccctat cgagtcgatc gaagatccat ttgatcagga 300
 tgactggagc acttatgcc aactcactga tgagattgga cagaaagtgc agattgtagg 360
 agatgatctt ctcgttacca 380

<210> 20051
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-A4
 <400> 20051

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 ggcgagtgcg acatttccag tactcccgtt cccgctcatt ccttgtctgc gaaagagctg 180
 actcacgaga ccaacgagga tgtcgagaac atcgaggact agtacatggt cacaggctac 240
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<210> 20052
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-A5
 <400> 20052

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 attgtgcacg ataacgacga cacagtgcag tcagaagagc attggtttgt gcgaagggtgc 120
 agaggggctgt gggcaatggc aggggagagg ctagggttca ctgacgagga gagattgagg 180
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 gcccttggcg ctggtgtagc ttttgtggtg tttaaagatg tctacaccgc aaacaaggcg 300
 gtaaaggatt tcaagatgga gaggaagaag acaccgattg gtaggttttt cccagtgatg 360
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<210> 20053
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A6

<400> 20053

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cctgaatatg ttgataagag ggctctacta gacaggctat gtagggcgct gggagggtgca  120
gagaaagtcg agatagaatg gggaaaccat gctctgtcca acagagtgca agaagcagtt  180
gtggccattg tagattttgt caagagggag gggcccaaag gctgggacga cccatggagc  240
tagatacagc agttataatc tcatttgtaa ctagtttggtg cttttcctct tctctctttt  300
ctccaattgt aacatctttc ttttgcatTA ttattgggtcc atttttcaat agtgatatgc  360
tatttttctt ataaccctt ccccaaaca tgcacgcgt tctcattcta gtatgggtgta  420
tcacatat                                     428
  
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<210> 20054
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A7

<400> 20054

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gatgggtgttt cctgccatcc tcccaagggt ggccgtgcga ttgctcttca cgttctaccg  180
cgccgccagg aagctcaggc gccacgcctt ccagctctac aaccgtagga ccgccgcaa  240
gccgccttcg ttctccgtct cccagcagca ggccggtgcc gccaccttca agaccgacgc  300
cgccatccct gacgccgccg gccggaccgt cgtctgtgac gtgcacggag ccctgctgcg  360
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<210> 20055
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-A8

<400> 20055

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cttagatgcc tttgtctcta tggaacttcc ctaagctatg taccaaaggg tgttggtaaa 180
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ttggataggg ctacttccgg tgcgtctgca ctgcgaaaca agccattcct agaggatctg 360
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acagaaa 427

<210> 20056

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-001-Q1-K2-B1

<400> 20056

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cggcctggcg gccgaccctg agaagaagga gcggctgcag ctggcggaga tcaagcacgc 120
gcggctcgcc atggctgcct tctcggctt cgccgtgcaa gccgncggca ccggcaaggg 180
gccgtcaac aactgggcca cccacctgag cgacccgctc cacaccaaca tcttcgacac 240
gttccgaagg tcctcttaag cccgccattg gctccgcccg tccatcgacc ggccggaacg 300
tgttcttgga ttaattaact acgatctcta tgagcctggg gatggatcaa cccgtcgtgc 360
gtggtctcgt tttgtgatga gtgggagaga gaggatggca agatcgatcc tttngtaatg 420
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<210> 20057

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B10

<400> 20057

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ccattacctg gacatcatgg tgctgtgttg ccttcttttg atcttgaacg tttgggtcag 180
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<210> 20058

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B11

<400> 20058

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ttacttgagg tcttttatca caagatatac aaggtatttg caccaaataa aaagattgaa 180
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<210> 20059

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B12

<400> 20059

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tcgctagagg tagtcattga agcatcagac gccagtgatg atgatatggc tgaagctgaa 360
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<210> 20060

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B2

<400> 20060

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atccttgagc cacacatggg acagctagta cactcagagc aatgatcatt cgtgccccaa 180
tggcgaacga aattagtcatt gacattcatg aacatgctat tgacatagag tccaggatgc 240
cggaata 247

<210> 20061

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-H6

<400> 20061

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tctctgcccc aagcatatat gcacccatgt ttgttcttag tgtcaatgag gacaagctca 240
cctcccatgt taacattgat tacaatgcta gctgcaccac aaactgactt gctaccctcg 300
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<210> 20062
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-H2

 <400> 20062

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 gaataagctt ttacttcctc 440

<210> 20063
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-D10

 <400> 20063

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 tctgaagggg aagaagggtg tcgtgcgcgc cgacctcaac gtcccgtcgc acgatgccca 180
 gaagatcacc gacgacaccc gcatccgcgc ctccgtcccc accatcaagt tctcctcga 240
 gaagggcgcc aaggatcatc tcgccagcca cctgggtcgt ccaaaagggtg tcaccccaaa 300
 gtacagcttg aagcctcttg ttccagctt gtctgagctc cttggagttg aagtcgtgat 360
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<210> 20064
 <211> 301

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-F2

 <400> 20064

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 acaaggagga agagaagaat gacccagagt ttgcaaagaa gcttgccctct ttagcagatc 180
 tttatgtgaa cgatgccttt ggaactgctc acagagcaca tgcgtcaact gagggagtta 240
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<210> 20065
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-H7

 <400> 20065

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 tgggtctgga cataggtcca gattcgattt cggcggtcag ttctgccctg gaaactactc 240
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 ccaaggcaat tgcaaagaag ttagccgagc ttagtggaac gggcgtcact acaatagttg 360
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<210> 20066
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-015-Q1-K1-H5

<400> 20066

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tgctgcgcaa cggctggata cctgcctcg agttcagcaa ggctggcttc gtgtaccgcy 120

agaactgcac ctacccgtgc tactacgacg gccgctactg gaccatgtgg aagctgcca 180

tgttctgctg caacgacgcc acccacgtgt acaaggaact gcaggaggcc atcaa 235

<210> 20067

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-D11

<400> 20067

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gctgaaggat ccggtacatg catgtgtgga cggcctacag caacaagaag gtcaagacgc 180

tggcgctacct gccgacgctg tcgaccgacg acctgctgaa gctgggtggac tacctactgc 240

gcaacgggtg gataccctgc ctcgagttca acaaggctcg cttcgtgtac cgcgagaact 300

ccaccttccc gtgctactac gacagccgct actggaccat gtggaatctg cccatgtcac 360

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<210> 20068

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F11

<400> 20068

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tccagggggt caaggccagg gccagcctcc cggctcgccc gcgctcctcc agaagcctcg 120

gcaacgtcag caacggcgga aggatccggt gcatgcaggt gtggccggcc tacggcaaca 180

agaagttega gacgctgtcg tacctgccgc cgctgtcgac ggacgacctg ctgaagcagg 240

tggactacct gctgcgcaac ggctggatac cctgcctcga gttcagcaag gtcggcttcg 300

tgtaccgcga gaactccacc tccccgtgct actacgacgg ccgctactgg accatgtgga 360
agctgcccac gtctcggtgc aacgacgcca cccatgtgta caaagagctg caggaagcca 420
tcaaatacta cccggacgcc ttccacgcgc tcacgcgc 458

<210> 20069
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-F9

<400> 20069

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gcgatgatgg cctgggtctgc gaccgccttc gctccatac agtgtctcac gttcaccgtc 120
agcctctccg tagccaggcg ctctccata agcctatg 158

<210> 20070
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G7

<400> 20070

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gtccggttcc atgggctgga gttcaccgac agtcttcccg acgaccggcg ctgctccaga 120
agcctatgta acgttagcaa cggcggaagg atccggtgca tgcaagggtg gtcggactac 180
ggaaacacga agttctagac tctgtagtac ctggcggcga ttgcgacaga cgacctgctt 240
gagcaatgtg actaccatga tgtgcaacgg ctggataccc tggctctagt tcataccgga 300
cagatatgag taccgtgaga acttcatcta accgtgctaa ttcgaaactgc gttactggac 360
catgcgaaag c 371

<210> 20071
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-F12

<400> 20071

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aaaagctcca tgcacagggt gggagataca agagcccaga tgagcaccct ttctttcctg 120

aggatctgcc tgagccccgg ttgccaccta tgcagtaccc aagggttttg catcccattg 180

ccgattctat caatatcaac aaagagattt ggaaaatgta ttttgatgaa cttcttccaa 240

gattggtaaa aaaaggaagt gatggtaatg ctggatccag tgctctttgt gacacgacct 300

gcttgcaagc gctctccaaa aggatccact atgggaagtt tgtggcagag gctaagtttc 360

aggagtcccc ggaagcttac atgccagcca taatagctca agaccgtgat caactcatgc 420

accttctcac atatgaaacg gtggagcgtg cta 453

<210> 20072

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-E11

<400> 20072

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cgcccgctgc tgctcaccgc ggggggtctg cccggggggc ggaggggtacg agccgcgttg 120

ccttcggacc agcgcctaga aacaaggggc tccgcgcggc caacaactcc gcgacgcccg 180

tggctaagga agagaggggt gatcgaagtg aaatattgac attggatagc attagacaag 240

ttttgattag actagaagac agcatcatat tcggcctttt ggagagagca cagttttgtt 300

acaacgctga tacatatgat agcaatgctt tccacatgga tggttttggc ggctctttgg 360

ttgaatatat ggtagagaa actgaaaagc tccatgcaca ggtagggaga tacaagagcc 420

cagatg 426

<210> 20073

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-H3

<400> 20073

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ggagctaattg gctggactga tcaagaatgt aagacaaaag ctctacgaca gtttgtctgc 180
caaggacaag agcggcaagg actggtcttt cattctgagg cagattggca tgttctccta 240
caccggcttg aacaaagcgc agagtgacaa catgacggat aaatggcata tttacatgac 300
caaggatggg cggatctcgt tagctgggct gtccctggct aagtgtgatt atcttgccga 360
cgccatcatc gattccttcc ataatgtgaa ctatgctgaa gtactatagt tgagggtcaa 420
gctattgatg ttt 433

<210> 20074
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-047-Q1-K1-H1
<400> 20074

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gcacaaccgt ctggaacgca ggtctgaggc agaagcaagt catcttcgtc accagcaaca 180
ggaggagcgg cggcggcagg aggcacggag gggcaaggag cttccaggtc tcgtgctccg 240
tcgacaagcc ggtggtgatt ggcttggcgg cagactcagg gtgcggcaag agcaccttca 300
tgcgccggct caacaacggt tttcggggcg ccgcgagacc cgccaaaggc gggaacccgg 360
acttcaacac gctcatcagt gacaccacga ca 392

<210> 20075
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-015-Q1-K1-A11
<400> 20075

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antggctgct agccgagaca ggggatagat tgagagagag gcgcgcagat ggcgacgccg 120

tcgtcgtcgc tttgctccag cttcgcctcc ctgcggaccg cctccatcgg ccacccccgt 180
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aagttctcaa agagtgcacat catcgtgtcc ccttcgattc tgtctgcaaa ctttgccaag 300
cttggtgatc aggtaaaagc tgtggaggtg gcaggatgcg actggattca tgtcgatgtc 360
atggacgggc gctttgtgcc aaacatcaca attggaccct tggtttgtga tgctctgcg 419

<210> 20076

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-048-Q1-K1-D12

<400> 20076

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cgtcatggcc ccgtccgacg aggccgagct ctgccacatg gtccgccaccg ccgcggcaat 180
cgacgaccgc ccgtcctgct tccgtaccc gagaggcaac ggcgttggcg tcccgttgcc 240
gnccaactac aaaggcactc ccctcgaggt cgggcaaagc aggatcctgc tggagggc 298

<210> 20077

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E1

<400> 20077

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tgctgaatat gttgttgagt ctactggtgt ttctactgac caggagaagg ctgcagctca 120
cttgaagggt ggtgccaaaga aggttgtcat ctctgtcct agcaaggatg ccccatgtt 180
tgtcgttggt gtcaacgaga aggagtacaa gtctgacatt aacatttgtt ccaatgctat 240
ctgcacaac 249

<210> 20078

<211> 109
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-A8

 <400> 20078

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 tgcacttttg tttcccttcc tgetaccatc tgtgacagat ccgctcgtc 109

<210> 20079
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-F7

 <400> 20079

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 aggctggcgc tgagtatgtc gtggagtcca ccggcgctct cactgacaag gacaaggctg 180
 ctgcacatct caagggtggt gccaagaagg ttgttatctc tgccccaagc aaagatgcac 240
 ccatgtttgt tgggtggtgtc aatgaaggca aggtccactt ggatggtaac catggtttca 300
 attgttagtt gaacaaaaaa tggcttggtt cccttggtta aggcattcat gaccaccttg 360
 gcattggtga agggttgaag accac 385

<210> 20080
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-001-Q1-K2-B9

 <400> 20080

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 gtaagatcgg aatcaacggc ttcggaagga tcggcaggct cgtggccagg gtcgccctcc 120
 agagcgagga tgctgagctc gtcgccgtca acgaccctt catcaccacg gactacatga 180
 cctacatgtt caagtacgac accgtccacg gccactggaa gcacagcgac atcacactca 240

aggactccaa gacccttctc ttcggtgaca agccggtcac cgtctttggc atcaggaacc 300
 ctgaggaaat cccgtggcgt gaggtggcg ctgagtatgt cgtggagtcc accggcgtct 360
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<210> 20081

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B9

<400> 20081

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 cgtggccagc gtcgccctcc agagcgagga tgtcgagctc gtcaccgtca acgacccctt 180
 catcaccacc gactacatga cctacatggt caagtacgac accgtccacg ggcactggaa 240
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 cgtctttggc atcaagaacc ctgaggaaat cccgtcgctg gaggtggcg ctgactatgt 360
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<210> 20082

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B6

<400> 20082

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 ccctccagag cgaggatgtc gagctcgtcg ccgtcaacga ccccttcac accacggact 180
 acatgaccta catgttcaag tacgacaccg tccacggcca ctggaagcac agcgacatca 240
 cactcaagga ctccaagacc cttctcttcg gtgacaagcc ggtcacctgc tttggcatca 300
 ggaaccctga ggaaatcccg tggggtgagg ctggcgctga gtatgtcgtg gactccaccg 360
 gcgtcttcac tgacaaggac aaggctgctg cacatctcaa gggtggtgc 409

<210> 20083
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-012-Q1-K1-C5

 <400> 20083

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 ccagggtcgc cctccagagc gaggatgtcg agctcgtcgc cgtcaacgac cccttcatca 180
 ccacgggacta catgacctac atgttcaagt acgacaccgt ccacggccac tggaagcaca 240
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 ttggcatcag gaaccctgag gaaatcccg ggggtgaggc tggcgctgag tatgtcgtgg 360
 agtccaccgg cgtcttcact gacaaggaca aggctgctgc acatctcaag ggtggtgcca 420
 ag 422

<210> 20084
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-C9

 <400> 20084

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 cggagtcaac ggatttggtc gtattgggag cctggtcacc agggctgctt ttaactctgg 120
 taaagtggat attgttgcca tcaatgaccc cttcattgac ctcaactaca tggtttacat 180
 gttccaatat gattccaccc atggcaaatt ccatggcacc gtcaaggctg agaacgggaa 240
 gcttgtcatc aatggaaatc ccatcaccat cttccaggag cgagatccct ccaaaatcaa 300
 gtggggcgat gctggcgctg agtacgtcgt ggagtcact ggcgtcttca ccaccatgga 360
 gaaggctggg gctcatttgc aggggggagc caaaagggtc atcatctctg ccccc 415

<210> 20085
 <211> 383
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-D3

<400> 20085

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gcaagacctt aaggaggaat atcatgttcc tatacttggc gagtatccta aatggattgc 120
aactttttaag aaatgggctg atctggagag ttggtaattg caattctatc aatatttgga 180
aggatccatg gacccacagt ggagaaacca ggaagataat tactccatcc aaggggtcaa 240
tccgtcatcc aaagagttta tgaactgata aatccattta agggcttgtt cgggtagctc 300
tcaatccata tggattgagt gagatttggg ggggttaaaa tcccagcatg gacaaaaggc 360
acacacgtgg tccagctttc tac 383

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<210> 20086

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F4

<400> 20086

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cgaagtatta ctatgtgatc ctaaagttat tagtgggttg tcctcagcaa tttaggtgcc 120
gtttggttca aatttttgga acgtaatggg taactcataa cattaaatca tgtttgttta 180
agttaaactg taatcgatac cacactacaa atggatagtc ttattcaaat ttgttactgc 240
cggtattcga gtgtgaatcg ttaccattac catttacgtt acatttcgtg aaccaaacgg 300
caccttactt ttttatagac tatgtctcca ttgttttcat tcactttcac tgacacataa 360
gttccttata acttatcagc tggcagtact tctgtcttct cgccatctat gtcagtc 417

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<210> 20087

<211> 256

<212> DNA

<213> Zea mays

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<400> 20087

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 ccactttctcg tgccagttca ccactgactt gattgcaatg aaccatgccg acttcatcat 180
 caccagtacc ttccaagaga tcgccggaaa caaggacacc gtccgccaat acgagtcaca 240
 catggcgttc acaatg 256

<210> 20088
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-C3

<400> 20088

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 tacagtgcag gaaaccttgt tgcgtgtttg ctcgcccaca agatgggtgt tactcactgt 180
 accattgccc atgcgcttga aaaactaa 208

<210> 20089
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G11

<400> 20089

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 cttttgttag tattgccgaa caaatttgac attgatgcag gggtttgaga aaatggcttc 180
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 cgctgcaatt cgcaaggacg attcaccaga tctgagcgaa gtcaggaaga tactgcaaga 360
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 gtgaagggtc tggtgatttt gc 442

<210> 20090
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-019-Q1-K1-H11

 <400> 20090

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 cgccatgtgc accaccaaga agggcgccat cccggcgctg cccacggtcg ccaccgcca 120
 ggacctcatc gccaaaggcca actagatggc cgcacgcccc gccgttccac cacgtcactg 180
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 agtcttaccg tcc 253

<210> 20091
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-B7

 <400> 20091

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 ccgaaagagg actttggagg tggcatccg gatcctaacc ttacctatgc aaaagagttg 120
 gttgaacgca tgggtcttgg aaagtcatcc tcaaagtgtg agcctcctga atttgggtgct 180
 gcagctgatg gagatgctga ccgcaacatg attcttggta aaagattctt tgtgacaccg 240
 tcggactctg ttgccattat cgtaaccaat ggctgtcaat caattcctta ctt 293

<210> 20092
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-F2

 <400> 20092

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taacccttca attgagcttg gacctgagtt caagaagggt gccaatctac ttggtcgggt 180
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 tggctctgga attacactca agggcaagggt gacaattatc gccaaacctg tagtgaagtt 300
 ggagattcca gatggagacg tacttgagaa caaggatgtc aatggctcctg aggatctata 360
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<210> 20093
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-F10
 <400> 20093

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 tccagctaac ctttcgattg agcttggacc tgagttcaag aagggttgcca atttccttgc 180
 tcggttcaag tccatcccca gcatcgctga gcttgacagc ttgaagggtt ctggtgatgt 240
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 tccttaagct atg 373

<210> 20094
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-A8
 <400> 20094

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 tccatggctc gtctcgaccg tgtgaagaac ttgactgggc tgggtggagct gtacggccgg 180
 aacaagcggc tgcaggagct ggtgaacctc gtggctcgtc gcggcgacca tggcaaccct 240
 tccaaggaca aggaggagca ggccgagttc aagaagatgt ttgacctcat cgagcagtac 300

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342

<210> 20095

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E6

<400> 20095

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<210> 20096

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-F11

<400> 20096

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gtgggggatcc caccaggggc cttttctatg attgttcggc ccacatgttg tgggttggtg 120

agcgcaactcg acaactcgat ggagctcatg ttgaattcct ccgtgggtgtt gccaacccta 180

tgggcataaa ggtgagcgac aaaatgaacc ccagtgaagt ggtgaagctg attgatattc 240

tgaacccttc aaacaaacct ggaaggatca ccataattac aaggatgggg gcagagaaca 300

tgagggtgaa gttgcctcat ctcacccgtg ctgttcgcaa tgctggactg attgtcacat 360

ggattactga tcctatgcat ggaaacacca tcaaggcccc ttgtggcctg aagactcgtc 420

catttgactc cattctggct gaagtgcg 448

<210> 20097

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-008-Q1-K1-A5

<400> 20097

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atgagagtga agttgcctca tcttatccgt gctgttcgca atgctggatt aattgtcaca 120
 tggattactg atcctatgca tggaaacacc atcaaggccc cttgtggcct gaagactcgt 180
 ncatttgact caattctggc tgaagtgcgc gcattcttcg atgtgcatga tcaagaaaga 240
 agtcacccca gaggcaccca ccttgaaatg actgngcaga acgtgaccga gtgcattggg 300
 ggatcacgga ctgtgacctt cgatgacctg acgaccgcta ccacaccac tgtgacccaa 360
 ggctgaacgc c 371

<210> 20098
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-D6

<400> 20098
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 cctaacaatga gtgcttctc ctaccttaca agcaagcctt aaccggcag gattccacca 180
 ccggcctttc tataaatggt tcggccacat actcttggtt cggagagcga caccggaact 240
 tgaatggccc atatgtagag tctctgaggg agatcgcaaa ccctcttggg atcaagggtga 300
 gccacaatat ggagcccga gagctggaaa atctgatcga cataactgaac ccgacgaaca 360
 agcccgagag gatcacgctc atcacaggga tgggcgcaga gcacatcagg gtcaagttac 420
 ctcaccttat ccgcgcggt 439

<210> 20099
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-D2

<400> 20099
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 agaactccaa attaagaaga tcatgcacaa cctgcggcag taccaggtcc ctttgcagcg 120
 ctatatggcc atgatggacc ttcaggagaa gaacgagagg cttttctaca agcttttaat 180

tgataacgtg gaagaact

198

<210> 20100
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-026-Q1-K1-C8

<400> 20100

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agaactccaa attaagaaga tcatgcacaa cctgcggcag taccaggtcc ctttgcagcg 120
ctatatggcc atgatggacc ttcaggagag gaacgagagg cttttctaca agcttttaat 180
tgataacgtg gaggagctgc ttctgtggt ttatacacca actgtagggtg aggcctgcc 240
gaagtatggg tccatctttc gacaaccaca ggggtctgtat gtcagcttga gggacaaggg 300
gaaggctcta gaagttctaa ggaactggcc acataggaac attcaagtta tctgtgttac 360
tgatggtgag cgaatcttgg gactnngaga tttgggttct tagggaatg 409

<210> 20101
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D1

<400> 20101

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tcgggtccga ttgaagagtg ccgcaagaag atttggttgg tggactcaaa gggtttgatt 120
gttgactctc gtaaaaactc cgttcagtca ttcaaaaaac cttgggcaca tgagcatgag 180
cccttgacaa ccttgtacga tgctgttcag tccatcaaac ctacagttct gattgggacg 240
tctggagttg gaagaacatt cacaaaagaa gttgttgagg ccatggcttc cttcaatgag 300
aggcctatca tcttttctact gtcaaatcca acctttcatt ctgaatgtac t 351

<210> 20102
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A12

<400> 20102

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atttataagc gcaagaaagg ttatgttcga catgggtcca ccaataagca gtgagcttca 120
ggttgtttct ttccacactg tgtcgaaagg gtactgggga gagtgcggac aacgtggtgg 180
atacttcgaa atgacaaatc ttctcccaa gacagtagat gagatctaca aggttgcac 240
gatagcactg agtccaaacg ttctgggca aatttttatg ggagtaatgg ttaaccctcc 300
taaacctgga gatatctcgt acctgaagtt cgctgctgaa agcaagtcca tccatgaatc 360
tttgaggagg agagcacgca tgatgacaga tggtttcaac agttgccgaa acgtcgtgtg 420
c 421

<210> 20103

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-G2

<400> 20103

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gttctgtcac ttcagtctct ctcgggcact ggatcactgc gtctcgtgc agcattcata 120
caaagatact ttctgaagc taaagtctg atatcgtcgc ctacctgggg taaccacaag 180
aatatcttca atgatgctag ggtaccttgg tcagagtacc ggtattatga cccaagact 240
gttgggttgg attttgaggg aatgatagct gacattgaag ctgctcctga aggttctttt 300
gttctgttac atggttgtgc tcacaacca actggaatag acccaactcc tgaacagtgg 360
gagaaaattg cagatgtcat tcaagagaaa aagcatatgc cattctttga t 411

<210> 20104

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-D4

<400> 20104

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aggactggcc aggggggtgcc tgcattaact atgactgtag tccgatgaat gcgtctgaag 120
aagcgcacaa tcttgagacc tcgcagctgg tctgggagaa gacactggag atggtcggcc 180
ttccgcggga tgccctggag aagctcatcg ccggagaatc agttcagtgc cgttacggac 240
aacaggatac aacttttttag ttagcagttt agaggtgggt tgttcggttg ttatgtcatt 300
ttgatcctaa atttgcaggg aggaaaacac agggaaagga gaaaaagaat ttgttgacag 360
ctaccaatc ttggctcttt tct 383

<210> 20105
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D9

<400> 20105

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tcgctgccgt ccacctccct cttccgcggc aggtccgccc gcgccgggcc cagacgcagg 120
cagctcacgg ccgtccgctg cagcgccgtc ggagaggcgg tagtgaggga ggcctcgccc 180
gggacggcgg aagagccgct gctggtgagc gcaatcagag ggaggaaggt cgagaggcca 240
cccgtctggc tcatgaggca ggccgggagg tacatgaaga gctaccaatt gctctgcgag 300
cggatcctt cgttccgtga aagatcagaa aatgtcgacc tagttgttga gatctctttg 360
caaccatgga aggttttcaa gcctgatgga gtcactttgt tctcggaca 409

<210> 20106
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-D10

<400> 20106

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ctaaggatgg gcattttgcc ctggaggagc tggcccaagc tggctatgag gtggttgggc 120
ttgactggac agtggcccca aagaaagccc gggagtgtgt ggggaagacg gtgacattgc 180

aggggcaacct ggacccctgt gccttgatg catctgagga ggagatcggg cagttggtga 240
 agcagatgct ggatgacttt ggaccacatc gctacattgc caacctgggc catgggcttt 300
 atcctgacat ggaccagaa catgtgggcg cctttgtgga tgctgtgcat aaacactcac 360
 gtctgcttcg acagaactga gtgtatacct ttaccctcaa gtaccactaa cacagatg 418

<210> 20107

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-F6

<400> 20107

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 agttgcatcc acgtagtcaa ggagttgaga cattaggaac aatatacagt tcctcactct 120
 ttccaaatcg tgctcctgac ggtaggggtgt tacttctaaa ctacatagga ggtgctacaa 180
 acacaggaat tgtttccaag actgaaagtg agctgggtcga agcagttgac cgtgacctcc 240
 gaaaaatgct tataaattct acagcagtgg accctttagt ccttgggtgtt cgagtttggc 300
 cacaagccat acctcagttc ctggtaggac atcttgatct tctggaagcc gcaaaagctg 360
 ccctggaccg aggtggctac gatgggctgt tcctaggagg gaactatggt gcaggagttg 420
 ccc 423

<210> 20108

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-A9

<400> 20108

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 cagcacgatg gcagtatgat cataaaccgg aagaaggaac cgaggaatgg aaacttctgg 120
 aagcctgcat aaaccogaag gattggatct gattagccgt tattcttgag atcttttgtt 180
 agagttttcc cttctgtagg gctaagacca cgtgcagttt cattatatat ttgcatctg 240
 tagaatcgtg aataaatatg atgtagtaat gctgtagctg tctgtatcta tctgctgttt 300

tttcccccattg tgaatgagag aaccattggc ttctgtatta cgaaggattc aggtttct 358

<210> 20109

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B9

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attcttcgcc gcggggatta gttcgggtgct tcacccaag aaccatttg ctccaacatt 120
gcattttaac taccgttact ttgagacgga tgcacaaaaa gatgcacctg gtgcaccaag 180
acaatggtgg ttccggcgggtg gtactgactt gactccttca tatatcattg aagaggatgt 240
gaagcatttc cattctgttc aaaagcaagc atgtgataaa ttgatccaa gttttcacc 300
aagattcaaa aaatggtgtg atgattatct ctatattaag caccgtaatg agcggcggtg 360
gctaggtgga atattttttg atgaccttaa tgattacgat caagaaatgc ttctcaactt 420
tgctacagaa 430

<210> 20110

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B3

<400> 20110

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cgaacagagg caccacccag catggccctg caggcggcgc tcttcccatc caccctctca 120
tccgtcccca agaagtgcag cctcgccgtc gcggcggaagg acacggcatt ccttagcgta 180
tcccagaaga aggtgcaggc ggcgtcgtc tccgtgagaa cgcgggtggc gacgacggcg 240
cctgtggcca cgcgggggtc cagcacggcg gccaaaggatg ggaagaagac cgtgcggcag 300
ggcgtggtgg tgatcacggg cgcgtcgtc gggttgggccc tggcggcggc caaggcgctg 360
gcggagaccg gcaagtggca cgtggtgatg gcctgc 396

<210> 20111
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-C4

 <400> 20111

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 gccctggcgg agacaggcaa gtggcacgtc atcatggcct gccgcgactt cctcaaggcg 120
 tcgcgcgcgg ccaaggcggc cggcatggac aaggacagct tcaccgtcgt gcacctggac 180
 ctgcctccc tggacagcgt ccgccagttc gtcaagaacg tggccagct ggagatgccc 240
 atcgacgtgg tggctgcaa cgccgtcgtg taccagccca ccgccaagga gccgtcctac 300
 accgccgacg gcttcgagat gagcgtcggc gtcaaccaac ctggccactt tctcctcgcg 360
 cgcg 364

<210> 20112
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-E9

 <400> 20112

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 gagcttcgac ggcgccaagg cgtacaagga cagcaagatc tgcaacatgc taacaatgca 180
 ggagctgcac cggcgggtacc acgaggagac gggcatcacg ttcgcgtcgc tctacccggg 240
 gtgcatcgcc accacggggc tgttcgcga gcacatcccg ctgttcgggc tgctcttccc 300
 gccgttccag aagttcgtca ccaaaggctt cgtgtcggaa gcggagtccg gcaagaagct 360
 ggcgcgtgtg gtcagcgacc ccagcctcac caagtcggng gtgtactgga gctggaacaa 420
 ggactccgcg tcgttcgaga ac 442

<210> 20113
 <211> 277
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G7

<400> 20113

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gcgtacaagg acagcaagat ctgcaacatg ctaacaatgc aggagctgca ccggcggtac 180

cacgaggaga cgggcatcac gttcgcgtcg ctctaccggg ggtgcatcgc caccacgggg 240

ctgttccgg agcacatccc gctgttccgg ctgtct 277

<210> 20114

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A4

<400> 20114

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ggtttctgct cagaatgtgt ggattggaaa aggaggagcc tacaccggag agatcagtgc 120

agaacaactg gtggacatcg gctgtcaatg ggttattctt ggacactctg agcgtagaca 180

tattattggt gaaaatgatg agtttattgg aaagaaggct gcatatgcat tgagccaaaa 240

tgtaagggtt attgctgca taggagagct gctggaagag aggaagcag gcaaaacttt 300

tgatgtatgt tttaagcaga tgaaggcttt tgcagatagt atttcaaact gggcagatgt 360

tgtaattgca tacgaacctg tttgggctat tggaaaccgga aaagttgcta cttcttgaac 420

aaccaaga 429

<210> 20115

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H5

<400> 20115

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agttcaagga gatagttgtg gaccagggtcg gggatcgcg taccagctac gatgacttca 120
 caaacagcct ccctgagaat gactgccgat acgcgatcta tgatttcgac tttgttactg 180
 cagaggatgt ccagaagagc aggatcttct atatcctatg gtcccatcc ttcgtcaagg 240
 tgaagagcaa gatgctttac gcaagctcaa accagaaatt caagagtggc ctcaatggca 300
 ttcaggttga actccaggcc acagatgcga gtgaaatcag cctcgatgag atcaaggatc 360
 ggtcacgcta ggcgacccgt catcgcgagt ttcgatgatca cgcacatgg actcgctac 420
 tactgtggat ttgtatgccca ttata 445

<210> 20116
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-H6
 <400> 20116

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 cccaatctg gatactctgg gaattatatg aacaaaaaca cacatcctgg atactcccat 180
 attggtacat caaatgacat tgtatctcag gatcacatgg cccatggatc tcacggaatg 240
 tttactcaag tgggggtataa tgatccgtcg caagatgagt catctcagat tcattatgga 300
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 tatgctcact acaacaccca gccacattct cttc 394

<210> 20117
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-H7
 <400> 20117

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 atgctggtga tcttggaac gtgtcagctg gagcagatgg tgttgcta atcaatgtca 180

ccgacagcca gatccactg actgggcca actcaatcat tggcagagct gttgttgttc 240
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ccggtggccg tgttgcttgt gggatcattg gactccaggg ctgaaaacga tcgccggact 360
tgggggtgcc tgagaggtcc gtctcctgcc gtaccagca gactagcctg aacattcgga 420
gacatcgt 428

<210> 20118
<211> 331
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-059-Q1-K1-H8
<400> 20118

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gctcaatatt gttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa acaaaaacta acaaaaaaaa aaaaaataa caaacgggg 240
ggtctattaa aaagatccaa attatccttc aaagtattgc cactaactca tctatatcaa 300
tggacaccaa aattaaccaa atggcccgct t 331

<210> 20119
<211> 137
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-059-Q1-K1-H9
<400> 20119

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cctgtccctc gcgatcggcg gcacggtcgt tggtcactgg actaacaagc tgcaacacct 120
gaagcagcat atgtctgc 137

<210> 20120
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H2

<400> 20120

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gagaggtcaa ctcaagctca tgcaggcaga tcacaatctg gagataacga ggggtactct 120
acctccaact taggactggg atgcatacat gctcaactta tcatgctctt tgacagagac 180
gtgctactac ctgaccgtct atggcaacta gtcattgcaat ctccatccac catactgcga 240
gaccttatta caccgcgcga cctggcgcg ctcacaacgcg cgcctaattg tggacttcat 300
cgcggaacaca ctcggccttc cgttcgtgcg accgtatctg agctgacgga tcgcggatga 360
cttgcccggc tgatccaac 379

<210> 20121

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F2

<400> 20121

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gaggtccctg ttgatgctgt cttacagaag gatgagatga ttgacatcat tgggtgtgacc 180
aaggggtaag gttatgaggg tgtatccact agtcgtgggt taacagggct tacgtgagag 240
tccctctatg ggctacgtat agtctgggtg acatgcgcac gtgtttctac gagctcctgg 300
actctagtct gcagtgcaag ttgcttgag ttgagacgca tatcatggag gaactgggtc 360
g 361

<210> 20122

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F6

<400> 20122

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tatacttacc tcgttcagca caacacctac gtgtgttcct atacacgcct atcctcatta 180
cacgttcata cgttctcatc acgcaattta cccacatcta taatctcatg tacgccatga 240
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ttccccaaca ccttcgacat ctgccatata acctacatca cc 342

<210> 20123
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F8

<400> 20123

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gcctccacta tccttcgcaa agttccctct cagctcttgt ccgaatctca ctctagccct 120
aaccaaatcc catacccatc ccagccctat ccacaccaac cagctcgcca gctaccattt 180
ttaaccgcta caatctgatt atatcatatc ttctacctca attacacctt tc 232

<210> 20124
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F9

<400> 20124

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cgtggtcgtc tgcggcgacc atggcaacct ttccaaggac aaggaggagc aggccgagtt 180
caagaagatg tttagacctc tcgagcagta caacctgaac gggcacatcc gctggatctc 240
cgcccagatg aaccgcgtcc gcaacggcga gctgtaccgc tacatctgcg acaccaaggg 300
cgcttctgtg cagcctgctt tctacgaggc ttccgggctg acggtggttg aggccatgac 360
ctgcggcctg cccacgtttg ccacagccta cggcgggtcc gccgagatca tcgtgcac 418

<210> 20125

<211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-G1

 <400> 20125

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 gcgacgccat cccacgagc gccttctccg acgccgtctc cgctccgccg cattctccga 120
 cgccgtctcc gctccgccgt cttctccgac gtcgtcacct tccctcgcac aagatatggg 180
 ttcttgggag gagaaagtta gacaattttt gttagatgag gaagaagacg acgatgagtt 240
 gttctttgtt attctccctg ctataattcc atacctctca gaagagaaag agcccatcca 300
 cacctactca ctactgggtg ctaaaaagct tcctagctct atccaaactc ataccaaaat 360
 tgcaacagat tataggttca tgccattgtt tcagaactgc attggtgcc tgcacggcac 420
 acatataccc atcaccatag cataacat 448

<210> 20126
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-G10

 <400> 20126

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 gagcgttcat cggggggggca ttaccgtccg aaagcgaggg gtccacgatg ctagtactgc 120
 tggctctggt gcgatgctca tcttccctcg cccaagaagg cgttctctcc gacatgccgc 180
 cgtgcaacaa gctggagttg atactggcgg ggc 213

<210> 20127
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-G11

 <400> 20127

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gcgcccttcag ggtctaagg aaaggttttc acattgtaac tcaaacaatgg acgcaggcca 120
gtgtttcttt ccacgtgaag ttgtgaagca cattgtcaac ccagttttcg ttcttaatcc 180
agcatatgat gcctggcatg tacaacatgc gttggctcca gaagcatctg accctcaaca 240
ttcatggctg gactgcagat tggatattag caagtgcagc cctaaacaac ttggaattct 300
tcaaggttca ggaaagaact gcatgacgct ataagtga 339

<210> 20128
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-G12

<400> 20128

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aagccgccgc cgctgcagtg tccatagcca ccggaggaga ctgagatggg gggttttgtc 120
aagaccacaca agagcaatgc gtacttgaag cgtttccagg tgaagttcaa gagaaggcgc 180
gctggcaaga cagactacag ggccaggata aggctgatta accaagacat aaacaagtac 240
aatacaccca aatacagatt tgttgtgcga ttaccaca aggacatcac agcacaaatc 300
atctctgcta gtatagcang tgatatgggt cttgcttctg cttactcgca tgagttgcca 360
cgatatgggc ttgaagttgg tctgaccaac tatgcagctg cttactgcac tggccttctg 420
ttggctcgcc gtgtgctcaa gaccgtgggt t 451

<210> 20129
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G3

<400> 20129

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caaagtctta attggcgggt gataaaaggc ggctacctc cgtaaatctg caagccagcc 120
ttaccaccac ttccaattcc aaaacaacca agcaaaacgc taccacacca accaggctaa 180
caccagcacg acaaaaccgc cgctaatact aggcctaaac tactggtaat tccccagatc 240

caaagcgaga tgcaccattc ataaaaccat ggcgcctctc ggcaagctcc gagtgaggggt 300
 ggacgactct accacgacca acggaaaact actacttgtg gcaccgcgcc gacgacggac 360
 gagacgacgc tgcggaacc atggaggggtg ttcagttgaa ctgggccccg c 411

<210> 20130
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-G4
 <400> 20130

acagcatcta atcaatcaag acagccccgt gctagctcac ccgccggggc tcgccacgat 60
 gagaggcctc ctgcgtgctg ccaccctcgc ccgccgcgcc gccgcctcct ccgcgcccgc 120
 gcgcgtccgc cacctggcgg gcgccgcgga ggcggcggag gccgagctca agaggacggc 180
 gctctacgac ttccacgtcg ccacggcgg caagatgggtg ccgttcgccg gctggagcat 240
 gcccatccag tacagggact ccatcatgga ctccaccgtc aactgccgcg ccaacggcag 300
 cctcttcgac gtcgccaca tgtgcggcct cagcctcaag ggccgcggtg ccatccccctt 360
 cctogagtcc ctgcgtcgtcg ccgacgtcg 389

<210> 20131
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-G5
 <400> 20131

ctgacattgt tgcgatgctc tcgttttata acctttatta tctcatcgta caaggtcagg 60
 atctatctta aaatagctct ctaagctaca ggtggacgaa gaacctggtg tcaggacaaa 120
 caccgacaatt cttcttgcca atattgcagg ctacatgaac gatgggacaa ggaagagagt 180
 gctgatcaat gcattcacag ttcgtgcatt acgtgatacc ttccctccgg ccagagcagc 240
 tggaatcatg gactaagtg tcaactagttc atactatgaa atgacagaga ttgcaactcg 300
 cattctgcct aacatcggtg agctcacatt tgaccacat agtgatgtcc gaaccaaggc 360
 atttcaggct accgatcagg tcttgcaaat tgca 394

<210> 20132
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-G6

<400> 20132

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cattatctcc tccatcgagc agaaagagga gtcccgtaag aatgaggaac atgttgcaca 120
gatcaaggaa taccgtggca agattgaggc tgaattgagc aacatttgtg atgggtatcct 180
aaagctgctt gacacgcacc ttgtgccttc ctncactgcc acagagtcga aagtgtttta 240
cctcaagatg aanggtgatt atcacaggta ccttgcctgag ttttaagactg gtgctgagag 300
gaaggaatct gcagagagca caatggtagc ttataaggca gctcangata ttgcattggc 360
tgaactgcc cctattcatc ccataaggct gggactngca ctttaacttct cagttttcta 420
ttacgaggat cagaactctc caa 443

<210> 20133
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G7

<400> 20133

ttaattcccg actcgagcca ctcatcgcac gtcaccttct ttttttttcc ttcattcatc 60
atacattcgt cagcctttcc tgaaggagga ctatctcttc tagttggctg caacagtagt 120
tgtgctacaa ttaggaacat tttccccagc atcaggatta cattcgcacg atttcaactt 180
cattgactat ctttcgtgca cgtgcaacta cgctgttggga tatggaaact gttcattcaa 240
gctctcgtca acatacggag ataccttata tcaccatgcc accggactct cacactaact 300
tcgcctagtt acagactgta tctcagacac ac 332

<210> 20134
<211> 169
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G8

<400> 20134

tcgggctctc cccaattcta agcgagactg tgcacaggaa gaggagagcc taaaagccta 60

gccccccgaa tcggatgcgg ccgcccggagc gcggaacccc accccggccg ccatggaaaa 120

gggaggggatg agcgacgctg aacggctggg cttcttcgag atggcctgc 169

<210> 20135

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-G9

<400> 20135

tttgtgatgg atctaggggc ctctttgtca attcattcaa taaacaaagt gtgaaatgga 60

agcttaatgt gctggctgta tcctgctaaa tga 93

<210> 20136

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-H1

<400> 20136

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aggaggacta gggctcctct tgccggcggc ggttggtgtg ctactgttgg gtgcagtggc 120

gccagcggcg ggttgctatc cgtgctgtt caacttcggg gactctctgg cggacacggg 180

caactacccg ttcgtctatg gcaacggctc atccaagctc cgtccaccat acggcgagac 240

cttcttccac cgcgccacct ggcgcgcctn caacgggcgc ctagtggtgg acttcacgc 300

ggacacactc ggccttccgt tcgtgcgacc gtatctgagc ggacggatcg cggatgac 358

<210> 20137

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H11

<400> 20137

gaaagaaaag gtcacccctc taacaccacg ccgccgccgt ttgctgctcg gcgcctgtgc 60
tgacaacccg tacgccaaag tctccaatct cgtatacttt cgtgctcagc atcatggacg 120
gcttccccc aa gagcgtcggc ggtggcggcc ctaacattcc ggccgggatcc cccccgcag 180
gcgggagcca ggccggcgga ggaggaggcg cgacgcagcg gacgcagtat ccgtatgtga 240
ctggtaattc agtcattgcc ttgaaatata aggatggtgt gatcatggca tgtgacactg 300
gagcctctta tggatcaact ttgagataca agagtgtgga acgcattaag gcagttggca 360
agcatagcat cattggagca agcggagagt tcagtgaact 399

<210> 20138

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H12

<400> 20138

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gccccgggtt ccagctatgc agtaccacag ggttttgcac ccattgccc attctatcaa 120
tatcaacaaa gagatttga aaatgtatct tgatgaactt cttccaagat tggtgaaaaa 180
aggaagtgat ggtaatgctg gatccagtgc tctttgtgac acgacctgct tgcaggcgct 240
ctccaaaagg atccactatg ggaagtttgt ggcagaagct aagtttcagg agtccccgga 300
agcttacatg ccattcataa tagctcaaga ccgtgatcaa ctcatgcacc ttctcacata 360
tgaaacggtg gaacgtgcta tcgaacacag ggtggaaacc aa 402

<210> 20139

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D6

<400> 20139

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ctttttccca gaccggttct cttattcaca caggtggctc attcaccaac cattaacaaa 120
catcattcag tgatcctctc cttcttattc taacttacc c taccactaat catcatacca 180
ttaaattattc taaacttaca aacattccca ccatcgctt cttagatact cactactcta 240
ttccctatgc atacatcgtc a 261

<210> 20140
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-059-Q1-K1-D7
<400> 20140

tgcgaggactc gtgggctgac tcgtgggtgg atccaataaa atgtggattg aattgtaatg 60
ttaattatct agctgtgtca tgttgatgg ttgtatgatt atgatttatt ctgaatcctg 120
agtacctgga tcgcagttcc aaaactatct agatttagag gtacattgcc agggaaactt 180
gtgacctgtt tgacaaataa tcatcatgtg tgattataat tgtgtgtgtt cacaccatga 240
cactttgata ctatggttac attttggctc cgttgtaac ccagggttca ttctgagata 300
tggaattttt ttgtggtgt gtttccctgg cgtatagctt ttctttctgt aggcaccttt 360
ttggatgcct gttcttcaaa gatgggtgta agacatgaca acattatgta cctatgtagt 420
gctagactca tactcag 437

<210> 20141
<211> 238
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-059-Q1-K1-D9
<400> 20141

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tcggccgcgc aacagagggtg gtccctgcgc cattgaaaac tctgatgact acagactcgc 120
atatggccgc cctcaagatg aatatcgtca acccacacgg catctacgac gcgctcgttg 180
cgtgaaccgc aagaccaa at gctcccaaca cgacattcag ctaacgagcc atggacat 238

<210> 20142
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-E10

 <400> 20142

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 agaaacctaa gagacaacgt ggaaagtttg caaatcccaa agttgaatca tccaagggca 120
 ttcaaagacc ccgccgaggt cttgggtccta ttcgagatat gttactggat tctgaatcat 180
 atgaaagtgg ggttcggatt ggtactaagt ttcaagcaga agttccaaaa tggctctggtc 240
 ctattttctag tagagaagat gagtttgctg agccactga acttgatcgt agtaaaacga 300
 caatgctgag tttcgaggat aagaaaacca gtatcggtaa ctggatccag tgccgggaag 360
 ttctagacac aagaattggt tgtggcaaat tggcggaggc a 401

<210> 20143
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-E11

 <400> 20143

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 agactccttg ttcgccttca tggatgtagt ggtaggtgag cgcttggatc gacgagaagg 120
 tcaactgaag aagaggagga ggaggagag gatctgattg acgttctcct ccggagccac 180
 aaggaaggaa acctcccgtt ccctctcacc atgaggacaa tcgaagcggg catatttgat 240
 ctgatcggag ggggtatcga gacagcaaca acaacgctgc agtgggagat ggctgagctg 300
 atgaggaatc caggcatcat ggccaaggca caggccgagg tcaggggatt gttcatgggc 360
 caaaccaagg taaccgaaga ccggctaggt gagctaccct acctgca 407

<210> 20144
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-E12

<400> 20144

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atcaatgact ttgatgtcac tatggtgttt cctgaacctt ggtgcatgcc tcgcctcttc 120
actgccgata ttgctgcttt ctatgaggct tactatacta acaaagggtgt aaagatcttg 180
aagggcacac tagctgttgg ttttgatgct gatgccaatg gtgatgtcac tgcagttaag 240
ctaaaggatg gcacagtact tgaagccgat attgttgttg tcggtgttgg aggcagacca 300
ttgactactc tcttcaagg tcaagttgct gaagagaagg gtggaatcaa gactgacgct 360
tnccttgaaa caagcgtacc tggagtatat gccattggtg atgt 404

<210> 20145

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E2

<400> 20145

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agaaggctgt gcgaagggaa agaagagact gtgggagagg agggcgacat ggagaggccg 120
gcaccggtga ggaagtctca cacgtcgacg gcggacctgc tgatctggcc ggagggggcg 180
ccgcaggagt cgcgcgcggg ggccacgccg tcatccaacc gtcggccgca tcagccgtcg 240
gaggcgctca ggaagggtgt gttcggcggg caggtgacgg aggaggaggc cgagagcctc 300
aacaagagga aaccatgctc tgctcccaag tggaaggaga tgacaggaag cggcatatct 360
gctgctgggg gcgaggctga agaagatgaa tc 392

<210> 20146

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E3

<400> 20146

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gacaggggttt caggacctcc tgcctgggaag ccactctgttt gataggttgt cttgactgct 120
 acaacgcaga gaggttgaaa agaaccacgt gaggtcctag accgtctctc tggatgatgaa 180
 attggcctgc actggacgag agccatacgt tcataggctc ctggagctta atactcgtca 240
 cgagcctatt gacattct 258

<210> 20147
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-059-Q1-K1-E4
 <400> 20147

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 cgctagtcga ctgcgcctc cgcctccgtt cctccgcaca ccggccgggtg accctgcgtt 180
 tcgttcttgt taactattca agaagtagga aatgatgagc aacttccaag ccactacttg 240
 caagcctcac agtaggatca ttgtgaagaa acctatagca agtcttggaa gcacatgtca 300
 gtatccatta tattcacatg ctctcggatt ccacacgttg caagagaagg tgtaccaag 360
 gctagtcttc atttctgcta gccacaaaag gctttactct gtatgtgcct taagtggaaa 420
 gggaagctct ggcactgct 439

<210> 20148
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-059-Q1-K1-E5
 <400> 20148

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 ggccgctcgc tccctgctcct ccagccgca gctggctcgc ggcggcgggc tccctggcagc 120
 ggcgctgctg ctgctggcgg cggggggcgg gacggcgctc ggcggcgtga gctgcggcga 180
 ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg cgtcgccctc 240
 cgcggcgctg tgcagcgggg tgcgctcgtc caacagccgc gcgtcgtcgg cggcggaaccg 300

gcaggccacc tgcaactgcc tcaagagcat gacgggcccgg ctcggcggcg gcgtcagcat 360
 ggccaacgcc gncaacatcc ccggcaagtg cggcgtctcc gtcggcgtgc ccatcaggcc 420
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<210> 20149

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E6

<400> 20149

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 caacgattca cacttaactt tgatggctac agactcatcc tgtcgattac tctaacgctc 120
 taacctccat gcatactggg acttgcacat acgtatctac ccacttcaat cgaatataaa 180
 gcttcaaaca tc 192

<210> 20150

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E7

<400> 20150

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 atctatacca tatctacttt ctgcaacgat tcccaactcaa tcttggtggc ttcagactca 120
 tcctataaat cactctaacg ctctaacatc catttctact gctaattggc tcaacgtatc 180
 tacctatttc agtcaatata aagattcaaa catctcacat cataagtgtg accaatctc 240
 atctactcaa tcatcagact ctctttcaac tgctctatat gatatatctc aaatcgctct 300
 ctttactcta acgcatgctt tcca 324

<210> 20151

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E8

<400> 20151

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caaagcttca agctgattga ggcaggggag tttcagcaag catgtggcgt agacaaggaa 120
caatgctgtg caacattgtc ttctatcctg tcatttacia agccaattta caggaaagaa 180
atgatcttat gaccccgat cagagtattc ctcttcgaaa gtaactccga atcagttcat 240
agaagctgta ctccattcca tagtttttat cacattgaca aactccgaat cagttaatat 300
aagctgtact ccattccata gttttcatca cattgacaaa ctgaagtaat gattggaacg 360
catccataca aagggcctgt tatgtc 386

<210> 20152

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-E9

<400> 20152

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tgatgattga atgttgctgc gtttatctct ggctcnnctg ttntatgcac taatccaatg 120
aggctgaact cttgttgta attgcaaaag gaaaatcctg ctcgagccaa cggccacatc 180
ttcaatgttg ggaatccgaa caatgaagtt accgttaggg agttggccca aatgatgaca 240
gaggatgcc atatattggt gaccctgact ggtgtacttg ttacttggtt ctattgtaag 300
tcactatttg tgatcttgct acgaggttct agtatcttcg caacggacaa aagagttgga 360
gagtactacc tatattcgaa aggtctngat gtttgccaaa ttgatgg 407

<210> 20153

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F1

<400> 20153

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gggctagctc cccgacgcgg atgctctgca cgttcttcta cttcgtaccc tactactcca 120
 tcctgagcaa ggcattcttc aagtcgcgac acatcaactt cagcgtcgat ctgctggagc 180
 tcatgaccga cctgaaacct atccacaagt cttcattgac tagggccgac aagagcctgg 240
 ctctatgggc tacgtctact ctgctataca tcccactata tgtcacgaga ctctcggaca 300
 ctacgctgca gtgcaagatc cctacaattg agacgcatat catg 344

<210> 20154

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F10

<400> 20154

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 gtctgggact gggaggcgga gatgtcgacg ccgtcgagga agcgcctgat gcgggacttc 120
 aagctgttgc atcatgaccc gtccgccggc atcagcggct cgccgcacga caacaacatc 180
 atgctctgga acgccgtcat attcgggccg gatgacacgc ctagggacgg atgcacgttc 240
 tagctgactc ttctatgtac agaaga 266

<210> 20155

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F11

<400> 20155

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 cacaactgca ccgagggggg aggagaccta aaaactacta catcttttag ctacacatct 120
 agctaaagat cgagaggggt aaataaggac gagtgggcgc tagctagaag agcagctgca 180
 ggtactacca tcatcgtcgt cgtcgtcgtc gccaggatga ccgtcgtcga cgccgtcgtc 240
 tcctccaccg ataccgggcg ccctgccgcc gccgccgtac cggcggggaa cgggcagacc 300
 gtgtgcgtca cgggcgcggc cgggtacatc gcctcgtggg tgggtgaaact gctgctcgag 360
 aaaggatata ctgtgaaggg caccgtgagg aaccagatg acccg 405

<210> 20156
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-D5

 <400> 20156

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 ctctcattca cacgtctgtt acattcacca accatttaca aacctccttc agttatccaa 120
 tcctttcttat tctgactgac cctaggactg atcatattac cattaaagag tctactctta 180
 caaacattcc caccatcgcc ttctgtaata c 211

<210> 20157
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-B8

 <400> 20157

 cggacgcgtg ggcggacgcg tgggggtctga agctgaggct catgcttttg aagtcaagtc 60
 ttttggcctc tacaatgaat tatcagagct tggtgggtta ggatgcgcgg ataacaactt 120
 aaacaccagc aatgtggaaa ctacggatta tctcatgttg ccacctgaca gagaactgtc 180
 ggctaattgat tacatggaac taaacgatct ccttgctcct gaccaagct ttcccagtga 240
 attttctgct caggacaatc aatatatgca gcacccctctt gctcagtaca atggacatta 300
 tgatctgtcg gtccttcgga gccacaatg cctagcattt tcgatgtttt tcttcccaat 360
 aatggagtcc tcgcaacaga tgatccagcc aactacttgg acccagccat gcagttccct 420
 ttctcatgat tggttaccat 440

<210> 20158
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-B9

 <400> 20158

acgctgaagt agaagcactt gtgctcgag tcgaaatgct tggaaccgga aggtggcgag 60
 aggttaaact tcgcgcttgt gacaatgcaa agcacgtac ctacgttgac cttaaggaca 120
 aatggaagac gctggtacac acagcgagca tctcgccgca tcagcggcgt ggcgagccgg 180
 tgccctcagga gctgctcgac cgggtcctgg cggcccatgc ctactggtcc cagcagcaag 240
 ccaagctcca gcctaagacg ccctcgctgg ctgaggctcg cttgctcacc caataattcg 300
 atgatcccgg ctgatggcct cctctgaggc cgttgagcc tttgtataaa gtcagtaagt 360
 cccttcacag gaggtttaat gaaaatataa tattagggga aaaaaagaat g 411

<210> 20159
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C1

<400> 20159

aaaatcaata ccctggatga cacatatata gcgagaggca aagatccttg cgaagagtgt 60
 atcaatcaca gacaatctca taagctagct cctcacaggc tcgtcattct tcacaccgaa 120
 gtacctgtac tatatctcgc gggctctaca atgtcaccat gtgccacata ttcacatga 180
 agcttatgca gctgaaaata gtagaattcc acataccttg ccttgctcag atcctagaac 240
 tgcttaacat tacactgtca accacacaac ttgtcgtact gatgcagatc taaaaaggcc 300
 agactgtc 308

<210> 20160
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C11

<400> 20160

cacgacctgc tttcacccctc tctactaaac aatccactat cgttagcctc aagcaciaaac 60
 taattttcat caatccccctc aagctcacat tcttgacata atatctcatc acccagatct 120
 actcatgcac tttctcaca 139

<210> 20161

<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C12

<400> 20161

gtcgccttctt aaaccttagt actacggatg ttatgagcta ataaatatat gtgggtgtctg 60
aaatgttcta gaacctctaa atctattact aagagcaacg atattgtcgc ttcttaaacc 120
ttagtactac ggatgttatg agctaataaa tatatttcgc taatgtgatg cagtt 175

<210> 20162
<211> 479
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-C2

<400> 20162

ttcgggtccgg attcccggtt caccaaccac ttcttcgcag agaacctgat cgggaacgga 60
gggaacagca ggggtgtacag gggcagcctc gcctgcggcc ggcaggtggc gatcaagctg 120
tgcaaggcgt cggcggaggc gtccaaggac ttcttcgggg aggtggacat catcaccaag 180
ctgcagcacc accggatcgt ccccttgatc ggcgtctgcg tggaaggccg caacctcatc 240
tccgtttacc gctacctccc caggggcagc ctgcaggaca acctacacgg ggaaagggtca 300
aagccggcgc tgtcgtggga gaaccggtac aaggctgcgc tggggatcgc ggaggctctg 360
agctacctgc actccggcag ctgcgggccg gtgatccaca gggacgtcaa gtcgtccaac 420
atcctnctta cagaagagtt cgagcctcag ctatccgatt tcgggctggc catctgggc 479

<210> 20163
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C3

<400> 20163

tctttgatca atggtttcaa atatctttcg aatatgatca acatgatctg atccatcggc 60
ttggtaatgt tctacggcga tctcttctca gaagggtcaa ctctaattca gaaagagatc 120

tacctccaaa gtactaatcc atactcaaag gctctatatc tcacacgcag aagcttcact 180
 attatacttt acatctaaat tcttctgatg caagccaatc cagttctgaa tacgctagca 240
 actgccata aggctcaata accatctcat taaactggtc caattctatc cgaccaatat 300
 ttctatcgca tgataaaaact aaaggccttg aaagaatcta atcttgcttt ctctcaacat 360
 gg 362

<210> 20164
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-059-Q1-K1-C4

<400> 20164

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 gagagaggtt ggcgggggag gcgcggccga gtcgctcggg gctaacaccg gcgaagccgg 120
 gggcggtcga ggtgcagcgc cgacgggcgg gcagcgggtg gacgagccgt cggatctcca 180
 tctacgcctc ccgagtctac ttctctctca tcatgctcca gatcccgtc ttcagggtcc 240
 cttgtagagc tggcacatgc acaactccta ttcaagtaac atcatctcag ttggtctcaa 300
 atgatataatt cccagcagct gttgtgaagg ccatgctcta ccctggagct accgtgagca 360
 gcctaactaa nagcaagaca ttcccgagtt ggaatgacct gtttgacatg tacaacctga 420
 cagaagcana naatgcttct gcagtagtt 449

<210> 20165
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-059-Q1-K1-C5

<400> 20165

ggatctactg cttatggggg gaaaaacatc gatgtcctag agggtgcaag ggctgctctg 60
 aatctgtcag gagccgtgct tggatattat cctgtcaatg ttctgccgtc aaaaactgcc 120
 attgcaccag tcaacaaaac attcctaccc aggtctaacg atgaacatga aatgtgtgca 180

aggactatct actgcacaaa ttaacattga caagaaggtc actcaagcag atctaaagtt 240
attcttttgag tccatatgtg gtgagggttg tegtctcttta ctccaaacac aatctccctt 300
ctgtatagct aaaagtttgc agaaatggca ccatcaagat cgatctggag accaacaaga 360
tcatggactt catcaagttt gacgtcggca acgtgggtcat gatgaccggc gggaggaaca 420
ccgggcatgt angagtgatc aagaacaggg agaagcaciaa ggg 463

<210> 20166
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-059-Q1-K1-C6

<400> 20166

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acgccaccaa attaaagcaa aatcagtaaa ttcactaatg gcagccttca cttggctatt 120
agcaggaata tcatggcatg aaaatttctg ttctacctct aattcccaat caagatatgc 180
agcaggatca tatttaccat taaaagatgg aatttttaa ttaatcttag aaaataagtc 240
attaggggga tgacgaacca cagcagctgc acgaccacgg cgatctccat cgtcctgctc 300
agtgtcaccg ccgtattcct gctccatctt tgtgggtcaat gcatcaaggc gtgccaggat 360
gggtgtcgagt gtgggtgcgag tcgccgtttg agcaagggtca agttgggtga aacgctncgt 420
cgtcgaaatg atcgggtggat c 441

<210> 20167
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C7

<400> 20167

cgatgaacta gacgatgact ctgatgtgga tgaggatact gatatatctg atgaagacga 60
aggtgacgac gatgaagtga aagaaagcat aaatgggttca gaggatgaag ctttagacca 120
gaaggaagac agcgaagagg aagacaagtc aaaaggcagt ggctctaaag cgcagaagag 180

gaagtttcat gattatattg gacagctaag ttctgctgat gcaagccttc gagttctgaa 240
gaggtttagca actgccaaga aggetgaaga accatctgat gaaactggta aaattctatc 300
cgatgaagat ttcaaacgca tcaaagaact caaggcaaag aaagaggcga agctggcttt 360
ggctcagcat ggactaatca aggggtgtcga cacatgggtct gtaaccttta agatgccatc 420
atctgaccag ctcagcagga agcgtgtcga tccacttgag ctt 463

<210> 20168
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C8

<400> 20168

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gctaaagaca aatctatcag catagttact ctaaaaaatt gaagcgcaat caatcaatac 120
actaatctcc accttcaacta cactattaac aacaatatca tatcattaaa attccttatac 180
tacctttaat tcccaatcaa taaatacatc ataatcatat ttaccattta aacattcaat 240
ttt 243

<210> 20169
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-C9

<400> 20169

ggcgagttc ggcggcaacg actacaacgc gcagatcttc ggcgggtaca ccccgagca 60
tgcgagcggc cagagcgcca ccatcgtgga cgccatcggc aagggcgtgg agcagctcat 120
cagcctgggc gccatgtacg tgggtgtccc ggtcgtgctg cccgtggggg gcttaccgat 180
ctacctgacg ctgtaccaga cctccagcgc cggcgactac gaccagtacg gctgcctgaa 240
gcgcttcaac gcgctgtcgg cgcatacaaa ctgctgctg caagccaagg tgtctagcct 300
gcatagcaag taccgccggc gcgggtcat gtacgc 336

<210> 20170

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-D1

 <400> 20170

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 aggtgacgac ggggaagtga aagaaagcgg gaatggttca gaggatgaag ctttagacca 120
 gaaggaagac agcgaagagg aagacaagtc aaaaggcagt ggctctaaag cgcagaagag 180
 gaagtttcat gattatattg gacagctaag ttctgctgat gcaagccttc gagttctgaa 240
 gaggttagca actgccaaga aggctgaaga accatctgat gaaactggta aaattctatc 300
 cgatgaagat ttcaaacgca tcaaagaact caaggcaaag aaagaggcga agctggcttt 360
 ggctcagcat ggactaatca aggggtgtcg cacaaggctc gtaaccttta agatgccatc 420
 atc 423

<210> 20171
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-D12

 <400> 20171

 gaaggattcg gtggaaagtg taataaagca gataagtggc attgctatctt ccgagtcaga 60
 tgcaacgccg tccacagata ctacaaacaa ttcacaaccg gaatcatctg ctccagacat 120
 agataagaaa attcgagcat tgaaaaagaa gatacgctta gctgaagcac aagtacaagg 180
 tgaccctgaa aaattgagat ctgaggcact ggaaaagatg aaaaagcttg atggatggct 240
 tatggagctg aagcttttgg aggacaagag agcgcttctg gcttagacaa aatcaacttc 300
 ggttctgatg tagagccacc gcgaccacac catggtgccg atccagattc gaaagtgcaa 360
 ctgaatcacc at 372

<210> 20172
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D4

<400> 20172

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ttttcagttg ctagtactat tctatacaca ttacattcaa ccatttacct tcaatcattc 120
catctatctt aatatcctaa atccacaatt atcaaaccat attttcactc ttttaacttc 180
attaccaact tcacttaaca tttcaatcaa catactctcaa attcatatca atctaactta 240
ttattttcaat t 251

<210> 20173

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B7

<400> 20173

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aggtaccttc tgaagtgttt gtcaatagca agttaacacc aaagcttgct cggcaaattgc 120
aggacgttct cgcactatgt agtggcagtt taccttcttg gtgttatcaa atgaccaagg 180
cctgcccatt cctgtttcct tttagagaaa ggaggcagta cttctattcc acagcctttg 240
ggttgtcacg agcattgaat cgactccagc aacagcagag tgataatcac agctctgggtg 300
gtgaaagaga ggtcagggttt ggcaggttac aacgccagaa agttcgtgtt tcccgtaacc 360
gtattctaga ttctgtgct aaagttatgg agatgttctc cagtcagagg gctgttcttg 420
aggtggaata cttttgc 437

<210> 20174

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A11

<400> 20174

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tcgatgagcc gacaaatcat ttggacattg agaccattga ctccctggcg gaggcactga 120

atgagtggga tgggtggttg gtcttggtga gccatgattt caggctgata aaccaggttg 180
 ctcaagagat ttgggtgtgt gagaatcagg cggtgacaag gtgggaaggt gatatacatg 240
 atttcaaggc acacttgaag agcaaggctg gtttatctga ttagagggct ttttccagca 300
 accatgagct ttttaactct gtatcacgaa gtcccagttt tccaatagcg aactatcaga 360
 gttactttat tgtatcggat ttcttttgac ttgcattgca acctgattac cttatacta 419

<210> 20175

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A12

<400> 20175

ctcagaacac acacaccgag tgtggatgta taagccatcg ctgtcccat ctgctagggc 60
 gcgggggccg gacggggact cgatcatgta caagcgtagc ctccagaagc gctggatgca 120
 gtaccggaag tacttgcagc atcccggtg gcagtactgg cactccgaga acgaggtggc 180
 ctccgaagac gtggtcgtag aggactagag cgacatcaag gtggacaacg agctcagacg 240
 catgcagcag ctgcgtcatg tcggaacgat cgacgacggg actttaggac tctacagaaa 300
 gcacgtggcc atgattgacc tcgatcacga acacaggcac aatatcacag tagaagatca 360
 tagcgctgct gacgtttgtg ccggcggtta cgtattatag cagcaccatt 410

<210> 20176

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A3

<400> 20176

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 tcggattccg cgcccagcag cgaggcatgg tggagaaggc gaggaccatg gcgcgcaggc 120
 tggagatccc ccagtggaag gccgacggcc tgccgtcgcc gacgagcccg ctggaccgag 180
 cgtcggcgta gcccgtggg tggcgccacc gcgacgcgt atgaggaggc gtggggctcg 240
 ggatcctggc ggcgctcgaa gccgagggcc cgccgcagcc cgcgcagagg gtgtccatcc 300

cgcgggcgcg ggtgcggctg gaggtgtcgg agctcgggtg cagcgggccc tgcgcca 357

<210> 20177

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A4

<400> 20177

aggggttttcg cgccgccgcc gcagccgcaa caatgccgtc gcacaagacc ttccggagca 60

agaagaagct ggcaagaag atgcgccaga accgccccat cccctactgg atccgcatgc 120

gcactgacaa taccatcagg tacaacgcca agcgcaggca ctggcgccgc accaagctcg 180

gcttctgagc gtcgggattg gccggctgct gcgtcggaag gctagggctc aagagctatc 240

ttctgtttta tcattgtctc tgtttctgta agctagcaag tgatgctgtg atgcttttat 300

taagattctg atgagtgggt acgttaagag aaaattggca gtactgtgtt gtaccccaag 360

attccttgca gcattgctat gctaagtaac gaacccttta tcttaaaaaa aaaaaa 416

<210> 20178

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A5

<400> 20178

ttcgttctaa ccctccctgc gactcttcga cccattactc gctatggact cggctgggggt 60

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gttacgcgct catcgagcgc gcccatcatt cgctgaacga gctagtctac gctcctgtcg 180

tcacctcttg aaaacatttg ctggtggaat tctgcacacg tgtggcaata gccccatct 240

caaacgctgt acataagtct aagccacaat atgtaccagt cttcactaaa gatc 294

<210> 20179

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A6

<400> 20179

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ggaagaccag ggagcccaag gaggagaacg tcacccttgg acccactgtc cgtgaaggag 120

agtatgtctt tgggtgtcgt cacatctttg catccttcaa tgacaccttc attcatatca 180

ctgatttgtc tgggagggaa actctgggtc ggatcaccgg tggcatgaag gtgaaggctg 240

accgtgacga gtcgtcacct tacgtgtcta tgcttgtgtc tcaagacgtc gcacagcgct 300

gcaaggagct tggcattact gcactgcaca ttaagcttcg cgccaccgga ggcaacatga 360

ccaagacccc tggacctggt gccagctctg cctcatggc gcttgctcgt tccggaatga 420

aaatcggacg cattg 435

<210> 20180

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-A8

<400> 20180

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cgcataatcca tgtaaagata ctggtatagt gcagacaaaa gatggcactt tctgctcgtg 120

catgcttcga aattctattg tctgtacgcc acataatggc atgttttatg ctgtttgtgg 180

ctttcttgac ttgaatgcta attcgcttct acatagaagt gatggcagtt tccttagcta 240

caaaccttat ttaaggaaa ggtacaacct tgatttaaga tgtgaagatc aagctctctt 300

ggaagctcgt aaacttgtgg aagtgcggaa ctttctccac aagtgttaact attaaaaaga 360

aaaagaaagg agtggttaaga gtgtggttga attgccaccc gaactgtgca tangtgtcat 420

gtcaccaatg tccgcaatta ctttg 445

<210> 20181

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-A9

<400> 20181

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gatggcgccg agcgggtgga ggaggagcgc ggcggcgccg gtcgcctggc gcccggccac 120

ggtttgcttg tggctcgcgc tcgccgccgc cgcactgacg ctgcgccagg ctaagaagga 180

cctgacggag gttaccacaca aggtctactt cgacatcgag atcgacggca agcccgcacg 240

cgggattgtc atggggcttt ttgggaagac tgttcctaag acggcagaga acttccgagc 300

tctntgcaca ggagagaaag gggttggcaa gaggggcaaa gccctccact acaaggaag 360

taagttccac agaatcatcc ccagcttcat gctccaa 397

<210> 20182

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B1

<400> 20182

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tgttcgacat gcattaactg cttaccttga atacattgcg tacctatatc agaagatgga 120

tccgattcct gaggcaggtac gcattgatac taattacagg gacttttggc agtatgactc 180

gtgcgcctct aatggacaat ttggaagctc aaacttatga gacatttgag aaggatgttg 240

tgaactacac tcagccggag aattttcaaa gtaaaatgtt cggtgaacag gatgcagaaa 300

aagttaaaag ctgcaacgat aaggcaaaca aaatgttccc aaaggtgccc tcaaagatca 360

gcttcaacat agttctgagc caattactga aaacaatgat gatattcac 408

<210> 20183

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B10

<400> 20183

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cctggcgtgt gaccgagatg gcgctgccga atcaggggac cggttgattac ccagcttca 120

agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180
ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttcat ccgttggatt 240
tcaccactaa ctgtggtgaag atcaggttct actgctggga taccggcagg caagagaagt 300
ttggtggcct cagggatggg atctatatcc atggccagtg tgcgatcatc atgtttgatg 360
taacctcaag gcttacttac aagaatgttc ctacgtggca t 401

<210> 20184

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B11

<400> 20184

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aagttgttgg tgatgcaaag acatgggaaa cctgatgcta tgatgcagtc atggatggat 120
caatttgagg ctgattctga caacgaatgc tgggcatctt ttttaagagcg gatctcaaga 180
gcaccaaadc aagtgttgag gtattgtcga gaaccaaadc ctaaaccctat ctgggcgtta 240
tcttctgggt gtgcatcaaa tgctgatatc ccatcatgta gctactgtaa aggtccatta 300
tgttatgaat ttcaggtaat gccacaattg ctatatctct ttgtagtggg aaatcaacca 360
tactcccttg actgagcaac aattgctgtc tacacgtgtc 400

<210> 20185

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-059-Q1-K1-B12

<400> 20185

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tccatcaaata gctgatatcc catcatgtag ctactgtaaa agtccattat gttatgaaat 180
ttangtaatg ccacaattgc tatatttctt tgttgtggga aatcaaccag actcccttga 240
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<210> 20186
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B2

<400> 20186

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 tccgattgat gaccaggaac acatcgagat taatctcacg gactctttgc agtatactct 180
 gcagccttta atggacaatc ttgaatctta tacttatgag acatttgaca aggatgctga 240
 caagtacact cagccggaga actttccaag tactatgttc agcgaacagg atgcacaaaa 300
 agtcataagc tgcaacgatg cggcgatgaa aaatgttcca aacgtgccct caatgatcag 360
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<210> 20187
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B3

<400> 20187

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 aagttcactg agactgtgga acttcagatt ggtctgaaga attatgatcc acagaaggac 180
 aagcgtttca gtggctctgt taagttgccc catatccctc gtcccaagat gaaggtgtgc 240
 atgcttggtg atgccagca tggtgaggag gccgagaaga tgggacttga ctacatggat 300
 gttgaggtct tcaagaaaat gaacaagaac aagaagcttg ttaagaggct tgccaagaag 360
 taccatgctt tcttggcatc agaggccatc atcaagcaga ttccccgtct cct 413

<210> 20188
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B5

<400> 20188

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gacgatgacc tccgagcaga acagccggag ctacgcgacc atgcgggagt cgccgtccaa 180
ggactcgacg accgcgcagc agtccgtgcc gagcccgtcg tccgtgggca tggcagccga 240
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cttctcggcg acgtcgctgt ccggtagctc catgaggggg gtgcggttca cccagcggt 360
caatatcgag tgctcgcgta gcctcttcgg cggctactac gactgccccca actacatggc 420
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<210> 20189

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-B6

<400> 20189

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cattcatgga ctaggaggta gctcttgga ccaaatacgc ctaacactct aaaaggaaga 120
gctcgcacgt ttactagaaa tgattcgata cagaatagtc actgctgtaa agtgagttca 180
taccaatttg atacaacatt caccttcaca aataaaattc aaatgacatg taagattatg 240
cctgacagcc tgaagaggtc tttcaaaaac caatctcaca actgctgtct gacatgtcct 300
ttcattactt aatatgtgtt cccttgcgtc tgtagaaaaa ctacataaaa gaagatacga 360
tagaca 366

<210> 20190

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-A10

<400> 20190

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 accacaagaa ggacgaggag cagcccgccg gcgagtacgg gtactccgag accgaggtgg 180
 tcaccgccac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
 ac 242

<210> 20191
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-G1

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 gtacatgaac tcaagcacca gcaccagcac tgctcctaca aatccagcca tagcgaacga 180
 cttcacagca tggagcagag cctctgatat tcttgggtgga accagctaca gcgccataga 240
 cctgtaccaa tgcttctagc tctaagctct agctctagaa gagaaaaagt ggctgtggca 300
 tatgacatag tggtagggcc aggaagaaaa gangcgggca ggcataagc tctgttcaat 360
 cgtgtggggc ctttgtgtca ctgttgatgt gtgcagtgtg t 401

<210> 20192
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G10

<400> 20192
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 ccgcagcggc aagcgcggca gctcccggag ggcaggctcg tcctcgccgc actcctccgc 180
 ggcgagcgcg ccgtcgtccc cgtccccact cccactcccg aggaggctcg cgtcgtcgtc 240

gtcaaccaca accagggacg agacggagcg cgtgttccgc aagttcgacg cgaacggcga 300
ctggcagatc tcgcgggtccg agctggcggc gctgttcgag ggctgtggcc acgccgtgac 360
cgacgacgag gtgtcgcgca t 381

<210> 20193

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G11

<400> 20193

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ccttcgtcgt cagggccagc tcgagccctt cagccaagca aggtgccgac aggcagctgt 180
ggttcgcgtc caagcagtc ctctcctacc tcgatggcac gctgcccggc gactatggct 240
tcgacccgct gggcctctcg gacccggagg gcaccggggg cttcatcgag cccaagtggc 300
tggcctacgg cgaggtgatc aacggccgct acgccatgct gggcgcggtg ggcgccatcg 360
ccccggagat cttcggcaag atggg 385

<210> 20194

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G12

<400> 20194

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actacctcgg gaacccgagc ctcatccacg cgcagagcat cttgccatc tgggcctgcc 120
aggctcgtgct catgggcgcc gtcgagggt accgcatcgc cggcggcccg ctccggcgagg 180
tcgtcgacct gctctacccc ggcggcagct tcgacccgct cggcctcgcc gacgaccccc 240
aggccttcgc cgagctcaag gtcaaggagc tcaagaacgg ccgcctcgcc atgtttctcca 300
tgttcggatt cttcgtccag gccatcgta ccgggaaggg cccgctcgag aacctcgtg 360
accacattgc cgaccccgtc aacaacaacg cttgggccta c 401

<210> 20195
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G2

<400> 20195

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gaagggcgcc atcccggcgc tgcccacggc cgccaccgcc caggacctaa tcgccaaggc  120
caactagatg gccgcacgcc ccgccgttcc accacgtcac tgtccccgcg cgtcccgccc  180
ctcgtcgtcg acgtcctcgg tttcggttca ttaggtagat cgagtcttag cgtccgtctc  240
tgcgctcta cgctgagacc cgttggttgg gttaatttaa gttagctttc gtggagattt  300
cgccccggtg catcaataaa atgttggcat gcgttggtgg gatgctatcc ttttttttta  360
  
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<210> 20196
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-G5

<400> 20196

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aattctccta caggcagaag aggagggact gttccaaatt atcaaggcat ctcatectac  120
attggagtgc caatgactta tcctactagt ccagtgtttc agggacaaac attgcctgga  180
gtattgcctc ctgttaggag aaacgactct gttggatttc tgtccccctc aagaaacatc  240
actggtagcc ctggaattca agggcagcga gcaagacaga agttgatgaa tcaaagacct  300
gctctttctt agaagagttg aagtccaaca gagcgcacat gggtgagctn tctgacatca  360
caggtcgtgt agttgaatac agtgctgacc aacatg                               396
  
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<210> 20197
 <211> 70
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G6

<400> 20197

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ggagggtcccg 70

<210> 20198

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G7

<400> 20198

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caaaccgcgc cggagattcc ttccggaagc cgacagggcc ccttgaccgg cttcgtgccc 120

tgcgcgctt cccaactttt tcggctcttcg gttcccgtgc ccgcgaaagc gaattgctta 180

attgaaggtg ggggctcgtg cctgaatttg aattttgggg 220

<210> 20199

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-G8

<400> 20199

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agccccggtt atgatcaata ctagtccggt cgattctgag gataccagct ttagaagtag 180

ctttcaagga agaagttgcc agcaaccaca tgattattgc cagccaagt ataccccgag 240

gagccgtggt gtcccaagta tgtg 264

<210> 20200

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H1

<400> 20200

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 cgcacagatt ttttgtacag ttctagagat gtgtagatgc ctttaggaaa aagagggtgta 180
 cacaagcgag tttttcagct ttaatccccc acggtcctgt 219

<210> 20201
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H10

<400> 20201

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 ttcaactctc ttggcgcccc acggcggttct tgcacaaggg tctcctggtg gatgcggagt 180
 gcgaccacct catcgcgctg gccaaaggaca agctggagaa gtctatggcg gcggacaaca 240
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 agcacgatga agtagtaacg agaatagagg agaggatatc tgcttggaca tttcttccac 360
 cagagaatgg tgaagccatt caga 384

<210> 20202
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H11

<400> 20202

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 tgcgatacct ctatcgcgct ggccaaggac acgctagata agtctatggc agcggacaac 240
 aagtctcta agagtgtcca gagtgaggcg cgcaccagtt cctgcatgtt cctcgagaag 300
 aagcacgatg aagtaccaac gacgatatag gagaggatat ctgcttggac attacattca 360

ccagactaat ggcgatagcc attcagagat tacactacc 399

<210> 20203
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H2

<400> 20203

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caaggtcccc ttctcggagc gcgaccgcac cgaccagtcg gcctcactct acgcggtcac 180
caagaaagcc ggcgaggaga tcacgcacac gtacaaccac atctacggac tcttca 236

<210> 20204
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H3

<400> 20204

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aaccggctcg tggttgtttt cgacacgcaa actcgcaatg gcacacatcg taa 113

<210> 20205
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H4

<400> 20205

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cgggtgacgtc caacggcggc tcagtggccg caaatgggcc ggcgcccggc cggctggcct 120
cogtgtacag cgaggtgcag acgaaccggc tcctgcacgc cttaccctt cccttcgtgc 180
tccgctccaa cttctcggtc gtcgtcggcc ccgccagctc cggcgtgggc aatcccgatg 240
agatcgccaa ggcttttccc 260

<210> 20206
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H6

<400> 20206

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 gaagtggata tccaattcta atagtggcag aggacattga gcaggaagct cttgcaaccc 180
 ttgtggctaa taggcttaga ggtgcattga agattgctgc tattaaggcc cttggttttg 240
 gagagcgcaa aagtcaatat cttgatgaca ttgctactct cactggaagc actgtcatca 300
 gagaaaaagt tggattatcc ttagacaagg cagac 335

<210> 20207
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H7

<400> 20207

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<210> 20208
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H8

<400> 20208

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 ccggcgggct ggccttcgtg tacagcgagg tgcagacgaa ccggctcctg cagcccttc 180
 ccctccccta cgtccttcgc ttcaacttct cggctcgtcg cggtctcgcc agcttcgtcg 240

cgggcaaccc cgatgagatc gccaaagtctt ttccc

275

<210> 20209

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H9

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ccaccggcac tggagctgga gggaaggcga agaaggagc ggccggtcgc aaggccggcg 120

ggccgaggaa gaagtcggtg acgaggtccg tgaaggccgg gctccagttc cccgtcggcc 180

gcatcgggcg ctacctcaag aagggccgct acgcgcatcg cgtcggcagc ggtgcccccg 240

tctacctcgc ggtcgtcctg gagtacctcg ccgctgaggt cctggagctc gccggcaacg 300

ctgccaagga caacaagaag acgcgcatcg tcccgcgcca cgtgctgctg gcgatccgca 360

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<210> 20210

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-F7

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atcatgcctg gcatcaaggt tgacaagggt ttggttccat tgcttgatc caacaatgaa 120

tcatggtgcc aaggtcttga tggtttggct tcaaggtgtg ctgagtacta taagcagggg 180

gcgcgcttcg caaagtggag gactgttggt agcatccctt gtggtccatc tgcattagca 240

gtcaaggaag cagcatgggg acttgctcga tatgctgcta ttgctcagga taatggttta 300

gtgccaattg tggagccaga gattcttctt gatggagacc atgggatcga gggagctctt 360

gaggtggcag agaaagtgtg gtctgaggtg tttttctact tagccgagaa caatgttctg 420

<210> 20211

<211> 318

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-059-Q1-K1-A1

 <400> 20211

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 tgactgaact gatttcgggt tgggtcgtgc ctttcttctc tggcacggta cgcgcagtcc 180
 gtttcgctgc cggcgaacac gcatgcagaa gcagactcgt cttatcgtgc tcacctgagg 240
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<210> 20212
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-D7

 <400> 20212

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 tagttgagct acaagaagta ataaggaata cacatgcaga attagaaaag gtcacatagg 180
 agaaggacgt gctcaaagaa cacgctaacg aatttgagca ccgtttaaag ggcctngagg 240
 tctcaggtac agaggttgca aagctaccag aaactatcag gaacctggaa gcccatctag 300
 gaagatcctt cgaagagaaa tcag 324

<210> 20213
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D9

 <400> 20213

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 catgaggcac gccgggaggt acatgaagag ctaccaattg ctctgcgagc ggcatccttc 240
 gttccgtgaa agatcagaaa atgtcgacct agttgttgag atctctttgc aaccatggaa 300
 ggttttcaag cctgaaggaa tcatcttggt ctcggaatt c 341

<210> 20214

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E1

<400> 20214

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 atcgccatgt tcggcgtctt cctcatctgc atccccatcg ctatgaagtc cgcagagctc 180
 gagcaacgcc cgcatacccc agtcgggcca atccccatctc aactgtggtg caaaaacttt 240
 ggtaagaagg aatactgaag gaccctccaa ctagcatgaa gtgtgggcac cttgcttttg 300
 ccttcttttt gtggaaacct gtgcctagcc ataatgctgg gttaagtgtt aggagcatct 360
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<210> 20215

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E11

<400> 20215

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 ctgcctggtg accggcgagt acggttgga cccaacatg gagcggatca tgaaagccca 180
 ggcgctgagg gactccagca tgtctgggta catgtcctcc aagaagacga tggagatcaa 240
 ccccgagaac gccatcatgg aggagctccg caagcgtgcc gaggctgaca agaacgacaa 300

gtccgttaag gaccttgta tgctgctgtt cgagacggcg ctgctcactt ctggcttttag 360
cctcgacgat cccaacacct ttggcagccg catccaccgc atgctcaagc t 411

<210> 20216
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E2

<400> 20216

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agcttctctgc 70

<210> 20217
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E3

<400> 20217

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tattcttgag catggtgata tgacagtaac gtcggaagag agggttcttg atgtcatttt 180
aacatggtgc atgggagctt gtgaaacttt tcaactggact tcagtagatg agctgttgag 240
aacttcaaca acagaacagc tctttgggga aaagcttttc gccatcaata ctttgctacc 300
attagtgaag ttccctttga tgcacctgtc tataactaaag aggatggaga gaagtaatct 360
agcaaaccac atacaagcat 380

<210> 20218
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E4

<400> 20218

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ctaccgacgt gagttagccg accaagtcgt acgcgcagga tcgcctcgtg cacctgctga 120
tctagcgcaa ctcacacgaa ctcatgtgg atctctgcct tgccgtcgag ctctcacgg 180
tatccaccct cgacgaggtg gtgtacaacc gctcgactga gttcatgtgg ctgttgaga 240
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<210> 20219
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-E5

<400> 20219

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ctacggcaaa gactatggcc gcctcgtcgt catcgtcgat gtggctcgacc agaacagggc 180
acttggtggac gccctgata tggtcaggtg ccagattaac ttcaaacggc tctcacttac 240
tgacatcaag attgacatca aacgcgttcc caagaagtca accctgatca aggctatgga 300
agaagctgat gtgaagacga agtgggaaaa cagctcatgg tgcaagaagc tgattgtcca 360
gaagaggagg gctgcgctca gtgactntga caggttcaag gtcattgctgg caaggatcaa 420
gaggggtggt gctatc 436

<210> 20220
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E6

<400> 20220

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<210> 20221
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E7

<400> 20221

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cggcaagaaa gttcagctcg tgtcatgaaa gccaaagcaaa taggaattct ttacgttggt 180

ggtgtctttg ggttgatttc cgtttcttct cgttggtgttc tgtagcttca aggaagcatg 240

aaattcaatg tggacggcaa gaaagttcag ctcgtgtcat gaaagccaag caaataggaa 300

ttctttacgt tggttggtgtc cagcactcgt atttggtggt gctcgagggt ccaaacagat 360

gtaggagcac attgagctat gtagtactag tactgggtata 400

<210> 20222

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-E9

<400> 20222

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tgcccttctc cacaatgcga ccca 84

<210> 20223

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-F1

<400> 20223

caactaggca gcatacagac gactagtctg ttggtcacct gactaacacc agctagcggc 60

tccgtctctc ctgcaataat ggccgatcgc tacttctect accagccgca gctggacgcg 120

gcggcagagg tcctggcaat ggcgctgctg ctgcaggcgg ccacagccgg gacggcgctcg 180

gctgaagtga gctgcagcca ggtgacgtac tccgaggcgc ccgacctcag atacacgatg 240

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gcggcgacag cggcggaccg gca 323

<210> 20224
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-F10

 <400> 20224

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 aagctatatt acctactatc aaagctttcc acaccatttc atcatcaatt cactcacaac 120
 atatcttaca tctacaaaga tctgactacc acccttctt 159

<210> 20225
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-F11

 <400> 20225

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 cgcgtcggcc gccgcggttg ccgccgccgt cgacgcggag gaccgcgtga tccggcaggt 120
 gggtccccgt ggagatgaca acgatctgga gctgaacgcg gagtcccact tcctgagctt 180
 cgtgcagcgg ttccgcaagt cctacaagga cgccgacgag cacgcgtacc ggctgtccgt 240
 tttcaaggcc aacctgcgcc gcgcgcgccg gcaccagctg ctggaccctg cggcggagca 300
 cggcgtcact aagttctccg acctcacgcc ggcagagttc cgccggacct acctcggcct 360
 ccgcaagtcc cggcgcgctc tcctcagaga actcggggag tcggcgcacg 410

<210> 20226
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-F12

 <400> 20226

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 cgctgtgtga cagcactttg tcgatgacga gcacgcgact gacgcgttga tgcagagagc 120
 ggtagtctgc agtgacgacg acgagggtgaa tctgatcgcg gatgcctact cgatgagctt 180

cgtgcacaac ttagacaaga catactggga cgcctacgag gacacgtacc gagtgagcga 240
tctcatggac aaattgcgca gagcgcgccg actgcagctg ctggacccgt ctgcggagct 300
cggagcctct acgatgttgg acgtcacgcc ggaagagatt cgacggac 348

<210> 20227
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-058-Q1-K1-F2
<400> 20227

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tccaggggtgg aataggaac ggccatacac catggcggat ttctccaagg aatcttgccc 120
ttctgtgaag aacattttac ttctggattc tgaaggaaag cgtgttgctg taaagtattt 180
ctcagatgat tggccgacta atgcatcaaa gttagcctac gaaaagtctg tttttactaa 240
aactctaaag acaaatgcac ggacagaagc tgagataaca ttgtttgatg gttatattgt 300
cgtttacaag tttgtacatg accttcactt ttttgtcacc gctggagatg atgagaatga 360
gctcatctta gcaagtgtac tacatggttt ttttgattct gttggtcttc tactcagggg 420
tgatgttgag aagc 434

<210> 20228
<211> 272
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-058-Q1-K1-F3
<400> 20228

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atcgtacgtg agcccgcccg agcgagagcg agggagaggc atggctgctc cgaagctcgc 120
gacgctggcg ctggccgtgc tcctggcggc gaccgtggtg gctcccccg cgcgggtgcg 180
cgcggcgatg tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca 240
gatgggcggg gccattgccg cccagccgtg ct 272

<210> 20229
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-F5

<400> 20229

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gtgacgaggt gggctgatgc cgcaacagct aagtcccaac ctacgccatt aacgtccggt    60
atataagcaa gcagcgaacc tctgcaaaca tggatcatcag cgaagcacia agcgcagatc   120
gtcgatctag cgagctcgga gtcggagcac gcctagacac caaagcaatg gcggctcggc   180
ggctcctcgt cgcgttcctt gccttggtgt ctggcttctc ggccgtccac gggcagaagt   240
tcaacgccat cttcagcttc ggcgactcca tgtccgacac cggcaacctg tgcgtgaacg   300
gtccnccgcg cggcctgacg ctcacccagc cgtcctacgg cgagaccttc ttcggccgcg   360
ccacctgccg ctgctccgac ggccgtctcg tcgtcgactt cctggccgag aagttcgggc   420
tg                                                                 422
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<210> 20230
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-D6

<400> 20230

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actcttattc tggagtccgc taatgaggaa agcgagaaat ggcaagctgc aggagccaag   180
ggttatcctt tctggctgct ccaagccata taagttaggg tggttggatc cttcatggat   240
atcttcatgt acttctgttg ttggcctcgc taagaagtgc atgtaccccg ggtgtctttc   300
agccctttgt attcttcgtc ttttaataata gtggggcaca gttctcctgt gcttttcggg   360
aaaaaaatat gtgcatctat ttaagtctct taccattaag tgtttataaa atatgtntca   420
tgggtctttt                                                                 429
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<210> 20231
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-F6

 <400> 20231

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 ctgcgggggtg gtggagcggg tcaacaagct ggtctacgtc cgcactcttc gcgcgagata 180
 caagccggag gttggtgata tcatagttag ccgtgtgatt gagattgctc ctaagcgatg 240
 gaggttggag ataaatttta gccaatgatgc tgttctgatg ctttcatcta tgaacttgcc 300
 tgatggtatt cagagaagga gaactgctgt tgatgaactt aatatgcgga gtatctntga 360
 agaaaatgat gttatctgtg ctgaagttag aggcttccaa catgatggat c 411

<210> 20232
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-C1

 <400> 20232

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 cttcttagac cacttccaca agaaaccgt gccacaaaag ccaaagccag aaccaagcc 180
 agaaccaag ccacagccta agcccgagta ccacccttcg acaccacat atgtttctcc 240
 aactcccatc tatcaccgt ccgctgagac agaatgaag tatgacaaga agcacttctt 300
 tgatcactt 309

<210> 20233
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-C10

<400> 20233

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gaggaggacc tggacgccta cgccaagctc tacgagaagt ccggcttcgg gtacccgctc 120

aagatgccgt acagatctat gcacaagctc ccgaaccggc tggacgcaa gttccagggtg 180

ccggtgttca tggatgatggg ggagaaggac tacgcgttca agttcccggg gttcgagacc 240

gccatgcgcg gcggcgctcat ggacaacttc atgccggacc tcaagatcac ctacatccct 300

gaggggagcc acttcgtgca ggagcagctc ccagagcagg tcaacgacct gctcctcggc 360

ttcctcaggg accatccctc cgccgcataa gcagtgggtg agaccgtcag 410

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<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C11

<400> 20234

ggaaggggtga cttcatatac aatgtcaata caggggaagaa aatcaaagtt cctcgcttgg 60

taaggatgca ctctaagtag atggaggata ttcaagaagc atatgctggc caaattgttg 120

ctgttttttg tgttgattgt gcatcaggcg atacatttac tgatggaaca gtgaaatata 180

ctatgacttc aatgaatgac cctgaacctg tgatgtcctt ggcagcttca cctatatcta 240

aagactctgg aggacagttt tcaaaagctc tgaatcgctt ccaaaaggag gatcctactt 300

tccgtgtggg ttggatgct gagagtggcc agactattat ttccgggatg ggtgagctgc 360

atctggatat atacgttgaa cgtattaaga gagagttcaa ggt 403

<210> 20235

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C12

<400> 20235

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agtcgctgca caagaagtgg tgggtggctcg ggggtcatgaa cgcgacgata gtgctggacc 180
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gctgcgtcag gagaggggaag aagacagccc ccgactctcg gccccatgac caggagaaca 360
gagaggaaaa cgaagcggca acgaaagagg tcgagctcca ggggtccagct 410

<210> 20236
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C2

<400> 20236

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gtgaccatca tgggacgtac ggccggcgctc aggcccaagc tgggcaagca aggcacctac 180
aacgtgaagc tgatcacgcc agagggagag ctacagctgc aactgcccga cgacatggac 240
atact 245

<210> 20237
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-C3

<400> 20237

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cgaggctcag agcagcgata caatcgacaa tgtcaaggcc aagatccagg acaaggaagg 180
tatcccgccg gaccagcagc gactaatctt tgcggngaag cagctcgaag acggccgcac 240
cttgcccgac tacaacatcc agaaggagtc cacccttcac cttgttcttc gccttcgcgg 300
tggca 305

<210> 20238
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-C4

 <400> 20238

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 atacccttgg gaacaatggc gatgacaccg gggcagctta gcgcacgcca aaataggcag 180
 aacaggatca tgcaaaccct agctctgata ccttcatcaa gatctccgtt tggcaagaat 240
 gaagagggttg cagccagccg tcaaaaactc taattcactt atgagcgccc taagaaacag 300
 tccgtgagcc cncctagcgt tttgcagtc 330

<210> 20239
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-C6

 <400> 20239

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 atgctggttg cgagtgcctc acatttgacc agcttgctct tcgtgctcca cttggcgaga 240
 acacggtcct cttgaggggc cccaagaatg cccgtgaggc agtgaggcac tttggcaagg 300
 ctcttgaggt gccgcacagt cacaccaagc cgtatgtgcg ctccaaggga aggaagttcg 360
 agaaggctcg tggcaggagg aacagccgtg gattcaaggt ttaaaacaaa 410

<210> 20240
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-C8

<400> 20240

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gctgcattat gtttctgatt tggtcgcggc tgcactgctg tgtatgggca cttgcagggc 180

caaggctttc attggttgac gccagtgcct cacatttta 219

<210> 20241

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-C9

<400> 20241

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gagtgttccc tatgcaatcg tcaacagaca cacttcctta acatgaatgg gtaaccttaa 180

ttccata 187

<210> 20242

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-D1

<400> 20242

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acccaaggcc caatctccac gcgagcggca cagcaggggt gccctggccc ccgcgccacc 120

gccgccgctg cttcgcgacg ccgcgcgcgc ggaacgggag ctctcctcgc ccggagatcg 180

actggtgccc ggtgccgccg gaccagcttc ccgtgaacga gtacgaagcg cttgcggggt 240

acctgccctt ctctggggcc gcggggggcc tccgcgtcta ctgcgtccgt ctgcgtgctca 300

cgggcgcccg cgtcgagctc tttgtcgggc tcccggtcgc cga 343

<210> 20243

<211> 386

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D10

 <400> 20243

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 tatcggagtt ggactgccca ccttgttggg tgtaagaaa gctctcgctg atgagcaagg 180
 aatctcgctc tcgaggatgt cttattcaag gticcttgag tatcttgaca agggtagagt 240
 gaagaagggt gatttatttg agaatgggac aattgctatc gtggaggcca tttctcctga 300
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 tcagaagttg agggaaaaga acatcg 386

<210> 20244
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D11

 <400> 20244

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 tggattggaa agaagaggat acaaggaggt cggtttcctt agagaggttg acgaagtggg 180
 gaggacagga gtgacacctg ccgagagact tctgcatctg tacgagacga agtggcaacg 240
 caacgtcgac catgttttcg agcacttgct atactgacgt ttagatgta ccctagtaca 300
 aaaatctcat ctttgattca ttcaacgcct tgagtgggag ggcacaggaa cacatctttt 360
 ggttaagttg ctgaccgggg gaacagctac ccggtgctgc gtgcggtg 408

<210> 20245
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-D12

 <400> 20245

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tgctgtggcg ccggggcgcc gccgacgtga gcgcctgcct gctggcgggc accgtctcct 240
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tgctcctcac cgtgctcttc ctgtgggcca aagcggcgcg cctcctgaac aggccgcagc 360
ctcccgcccc ggagctgcgc gttccgcagc aggccgtgga cgaggcggcc 410

<210> 20246
<211> 392
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-D2
<400> 20246

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gggagcatag gcgaaaaata tgaacagatt aagacgagtt catgagtcag aactagcgcg 120
gcgccacgac tggtttcgat tttggtgaga attgggtcgt ttggttggca tggttcaatg 180
aaatagaaac cataagtttt agctcgctcc atgtaaaaga tgtttatacg agctgttaat 240
tctcaaattc caccgtctga gcgggtctgg tcgcccattg gcaacacttt caagtttagt 300
caggtggcaa taagctgtgt cctttgggga gcacaggctc gtacaggatt actngtggtc 360
gtgatcagnt ctactgctac ctgaatttca tc 392

<210> 20247
<211> 173
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-058-Q1-K1-D3
<400> 20247

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aatggcgggc cgtggcaagg cgattggcgc tgggtgccgcg aagaaggcga cgtcaaggag 120

ctccaaggct gggctgcagt ttcccgtcgg caggatcgct cggttcctca agg 173

<210> 20248
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B9

<400> 20248

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tatgtcagcg acctattact tgacctactg ctataccatc tgtataacca gattgctaca 180
aacaccttga atcgactgga tcctatgaca catgctgtcg gtaatgtgtt gatacgtgcc 240
ttcatcatcg gttaatcaat cattgcttat ggcaacaaaa cctgcactca tactgcaatt 300
gacacgtatc attgacatat ctggtgttgc tatgcactct tacat 345

<210> 20249
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-D4

<400> 20249

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tgtcggcggt cgtggcctgg cttgagcttg cgggcaccgc tcaaggcggc aacttctacc 180
aggacaccta gatgacctgg ggccattgcc gccgcaaggt aatggaccgc cggcgccggc 240
ttgacctgac gcttgaccgc acgttcgggt tcgggttcca gtccaagagc gagtacctgt 300
tcggcaagat cgacatgcag atcaagcttg tgccaggcaa cttcgtggca c 351

<210> 20250
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-D5

<400> 20250

acgaatccct ctccggttat ccccaccagc tcaaagtcgc cctatcgtcc tgtcgtgaga 60
agcaatggct gtccgtggca aggcgattgg cgctggtgcc gccaaagaaag cgacctcaag 120
gagctccaag gctgggctgc agtttaccgt ctgcaggatc gctcagttgc tcaaggacgg 180
ctagtacgcc gagcgctgg ggcgccgcgc ccctgtctac ctgcgcgtg ttctcgagta 240
cc 242

<210> 20251

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H8

<400> 20251

gcgtccggtc cggattccgg tcgaccacgc tacgggcagg gcgacgtgat cgagagcggc 60
gctggctgcg gcgagttcgc tggcaaggac tacacggacc cttccccggc gccgtgatc 120
gacgcggctg agctggggtc ctggtcgctg taccgcgccg tgatcgccga gttcatcgcc 180
acgtgtctgt tcctgtacat cacggtggcc accgtgatcg ggtacaagca ccagacggac 240
gcgtcggcgt cgggtgccga cgctgcgtgc ggcggcgtgg gggtgctggg catcggtctg 300
gccttcagcg gcatgatctt cgggctcgtc tact 334

<210> 20252

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H9

<400> 20252

ccgaggtccg caagaacgga acctgcccct ggctcaggcc tgatgggaag acccaggtga 60
cagtcgagta ccgcaatgag ggtggtgcca tggccccat ccgtgtccac accgtcctca 120
tctccacca gcacgacgag acagtgacca atgatgagat cgctgctgac ctgaaggagc 180
atgtcatcaa gcctgtcatc cctgagcagt accttgacga gaagaccatc ttccacctta 240
acccatctgg ccgctttgtc attggtggac ctcacggcga tgctggcctc actggccgca 300

agatcatcat tgacacctac ggtggctggg gagcccatgg tgggtggcgct ttctccggca 360
aggacccaac caaggttgac cgcagcggag cctatgtcgc aagg 404

<210> 20253
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A10

<400> 20253

agttgttata atttatggaa tctaagtaac tagcaaacta attactaacc agtataggaa 60
aatgttgctt gctatcacat tggagccagc aattgtatta acactttggg taggatatga 120
atattagact gtcatttgct agaacatcag taaggcgtga agaatcagaa gaatattcag 180
tcgaagctgg tgatgaatta acatgccata ttgccatgct acttgaaaca ctggtcagcg 240
ctcgtgcatg tctcaccaac tgcgctgcag gtacctgtgt ccatgaccaa ctacaagaaa 300
gacacgaacg gatgccagtt catcatcacc accgtggaag gaagcaggtg ctaagtgcac 360
atttccgggc ttacatacaa gcattggaga aac 393

<210> 20254
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-A11

<400> 20254

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gctggcagtg aacctgatcc ccttcccccg tctccacttc ttcattggtcg gcttcgcgcc 120
gctgacgtcc cgtgggtccc agcagtaccg ggccctcaca gtccccgagc tcacgcagca 180
gatgtgggat gccagaaca tgatgtgtgc cgctgaccct cgccatgggc gttacctcac 240
cgnctcggcc atgttccgcg ggaagatgag caccaaggaa gttgacgagc agatgatcaa 300
cgtccagaac aagaactcgt cctacttcgt ggagtggatc cgcaacaacg tcaagtccag 360
cgtgtgcgac atcccgccca ggggcctgtc catggcg 397

<210> 20255
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A12

 <400> 20255

 gagccaagca cccaaggggc tactaccgct gcacgcacaa gagctctcag ggatgtgcgg 60
 cgacgaagca agtgcagcgc accgacgagg acccggcctt cttegacgtc gtctacctcg 120
 gcgaccacac ctgcgttcag agccagaggg cggcagcgac ggcggtcgt caggctgccg 180
 cggacgcgca ggcgccgggt tacgacgcca acctcatggt gaagaccgag gggccggcct 240
 tggagccaga gcagcagcgg cggggctggg acgacgcgcc cagcccttt ctcttctcct 300
 ccacgccggc gtgccttggt caggagcgca gcccttctc cgcgccgtcc acgtccgaga 360
 actggggcgt gtccccggcg acctcggact ccaaccacgt cgtctc 406

<210> 20256
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A3

 <400> 20256

 gaatttcgag cgtcgcgtac gcacgcgctc gatctcaaag gtgacaacca tctgatcaag 60
 gctttatcgc ggaaggaaag ggcgggacga gcgcaaagt tgcaacgctc actctgagga 120
 cgtatcagct gttactgctg taaagttctg tgctgaacat ccatatggca aagccgttac 180
 cttgctagac actgaagctc agcttatcat ggtgaacgag gattggctcc tacttgcatg 240
 gatctccata tcagtcctgt ttatggacgg agatggcggg atgaaacttg gcggccgtgc 300
 catggttcag aaaggtacag tgtgtggatc cgacactagc atggtgctag acacacagac 360
 cgtctgatca gggagcgtgg caaccaatct 390

<210> 20257
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A5

<400> 20257

tttccggctc gacccactcg ttcgcttgat cctaaagggtg acgagcttct tatcaagctt 60
tatccatgaa ggaaagggtg gggccaacgc aaatgttgca gcgctcactc tgatgacgta 120
tcaactgtta ctgttggtaca gatctgtgct gaacatccat atggcaaagc cgatgccttg 180
ctagacactg aagctcagct tatcatgggtg aacgaagatt ggctcctact tccatggatc 240
tgcatacac tactgtttat ggacggcgat tgcagactga aacttactcg ccgagccata 300
gttcaaaaag g 311

<210> 20258

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A7

<400> 20258

ctcgatctca aagggtgacaa ccactctgac aagctttatc ggggaaggaa actggaatac 60
gagcgcaaat gttgcagcgc tcactctgag gacgtatcag ctgttactgc tgtaaagtgc 120
tgtgctgaac atccatatgg caaagccgtt gccttgctag aactgaagc tcagcttatac 180
atgggtgaacg aggattggct cctacttcca tggatctcca tatcagtcct gtttatggac 240
ggcgatggcg gtatgaaact tgcggcg 267

<210> 20259

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A8

<400> 20259

gatgcgtttt agcagacagt ttacagggtta atgctatact ggcgaacctc cagccttgtc 60
gggatgactt tgcgacttga cgcgtccaga tgaataagca aatgactcta actgaattgt 120
ctgctgctat acatgtggat taccgtgcaa gggcaagtaa caatccatcc taccgactcg 180
cagctcatgt tgctgagaac cgcggtcatt cgaaatttca caagacgaag aggaactgtc 240
catagaagaa tttgaaccta cctaatttca aacagactaa taataatgag gaccctatct 300

<210> 20260
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-A9

<400> 20260

gtcggtcattg attgtgaaag ctcttggaat agccttgaaa ctgacctttt ctggcatgaa 60
 tcatctaatt tatccacaaa catgggttgtt caccattgtt gttgttgcat gtattagtaa 120
 cacagatgaa ctacctgaac aaggctcttg atactttcaa cacagcagtt gtatcaccga 180
 tatactatac aatgttcacg tcactaacia ttttggttag cgtgataatg ttcaaggact 240
 gggatcgtca aaatccaact caaattgtaa cagagatgtg tgggtttgtt accattcttt 300
 cggggacgtt tcttctccac aagacaaaag acatgggtga tggccttccg ccaactctac 360
 ctgtccggat tcctaaacat g 381

<210> 20261
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B11

<400> 20261

ctctccccct ccttggaatt gccattccac ctccgctcga attgccattc cccctctctc 60
 tcggcttctc ttggatcgaa ttgttagttt attagagtga agttgtcggg ggaggaggagc 120
 taggcgttag gtgggcgcct gcgtgctacg cctcgggaga aggtcaaaag aaaccgcccc 180
 accaccaacc caggcgactc ccccccaacc caacccaacc cgccattgct cttctttccc 240
 tccccgtcgc cagctgggca gagccgtccc gtccggagcc caaaggcgcc gcctttcctg 300
 aaccgggtcc gggcagatt gatcgattgg ttgttcgggt ccttggtcgg gaatcagagg 360
 aggagcaag agaagagatg tgcccgctgc gggatgacct catcttctc 410

<210> 20262
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-058-Q1-K1-B2

<400> 20262

tggccacact gccattgtta gaggcggtag cccacaggcg gacccgaatc cagaattcct 60
gaatcctgtc actgctcgaa aatcgaaatc gatccgatct ccgcttgccg tgaagcctga 120
tctccaccgg gtctgcagca tgggcgcatg acctcgatca cgaggaggca ggggagcagc 180
atccacaacc acaagccatg gcggggaggg ccaacatccc cactaacaac tccgccctca 240
tcgcaatcat cgccgacgag gacaccgtca ctggcttctt gatggccggc gttggcaatg 300
ttgatctgcg caaggaaacc aactacctnc tcgtcgacaa caagacgaca gttaaacaaa 360
tcgaggatgc gttca 375

<210> 20263
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B4

<400> 20263

ggaccctcca caacaatggc caccgtcctg ggcagccccc gcgcgccggc cttcttcttt 60
tcgtcgctct cctcccgccg cgcgccggcg cctaccgccg tggcgctgcc tgcggccaag 120
gtgggcatca tgggcccgtg cgccagcagc aggcgcaggc tgcgcgcgca ggccacctac 180
aacgtgaagc tgatcacgcc ggagggggag gtggagctgc aggtgcccga cgacgtgtac 240
atcctggacc aggccgagga ggacggcatc gacctgccct actcctgccg cgcgggggtcc 300
tgctcctcgt gcgccggcaa ggtcgtctcc ggctccgtgg accagtccga ccagagctac 360
ctcgacgacg gccagatcgc cgacggctgg gt 392

<210> 20264
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B5

<400> 20264

cgtgaagctc aacaagcaca tctggagcag tggatatccgc agtgtgccga ggcgtgtccg 60
 tgtcagaatt gcccgcgaacc ggaacgatga ggaagacgcg aaggaggaac tctactccct 120
 ggtcacagtt gctgagatcc caccggaggg tctcaaaggt ttgggaacta aggttgttga 180
 ggatgaggat taagccctgt ataccatgag agaaatttga gaatgttact tcagcttatt 240
 gttatctact gccaatgact catgtaatag aaggttcgag acttgtctcc tttcaagtgc 300
 ttcgccaagt ccaaatatcc acatggcatt tcattgtcct acgcattttc tg 352

<210> 20265

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H6

<400> 20265

ggcaaggacg acgtgatcga gagcgggtgct gtctgctgcg agttcgctgc caagggctac 60
 acggaccctt ccccggcgcc gctgatcgac gcggatgagc tggggtcctg gtcgctgtac 120
 cgtgccgtga tcgccgagtt catcggcacg ctgctgttcc tgtacataac ggtggccacc 180
 gtgategggt ccaagcacca gacggacgcg ttggcgtcgg gtgccgacgc ggtttgcggc 240
 ggcttggggg tgctgggcat cgccggggcc ttcggcggca tgatcttagg cctggtttac 300
 tgcaccgccg gtatctcggg gggcca 326

<210> 20266

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F4

<400> 20266

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 tcggcatctc gctgctggag atcctgtcca gccactcctt cgacgaggtg tacctcggcc 120
 agcgcgacac ctaggagtgg acgtcggacg ccaaggcgca ggatgcgttc aagcggttcg 180
 gcgcgcggct gaccgagatc gagaaacgcg tggaggccat gaacaaggac ccgcgcttca 240
 tgaaccgata cagcgcggtc cagttccctt acaccctgct cttccccaac acctccgaca 300

agggcgataa caccggc

317

<210> 20267
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F5

<400> 20267

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ctgaccagga agtggggcgg ggtagaaga cgtactacaa ctgggtccacc ttaccacagc 120
tatgtccag atgggggcta agaggggat gcgatattgc actcgagatg gacaaaagcg 180
gacagctgaa gtcgaccctg tcagagtaga cacctagcta gcagtctcgc ttcgctggcg 240
catgtatcac atagtctgca tagaatcagt atactatggc atgcatgcca ttatattgat 300
agatccacga ttgtactaga ctgaagagcc acattgggtg aattgtgaca catgtgccga 360
aggaataact cagcttggtt cacac 385

<210> 20268
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F6

<400> 20268

agtgcagatc actgacctcg gcatggccaa gtgcctgatg aacgacggcg tgaccagctg 60
ctcgagctcc ccggcgcgga tgctgggcac gttcggctac ttgcaccgg agtacgccat 120
cgtgggcaag gcgtcgctca agtccgacgt cttcagcttc ggcgtcgttg tgctggagct 180
catcaccggc cggcagccca tccacaagtc gtcgtcgacg agggccgacg agagcctcgt 240
actctgggcg acgtcggcgc tgcgggacag ccggctggtg gtcacggagc 290

<210> 20269
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F8

<400> 20269

cattgggaaa gcttttgcca gaacagacct gaatgaagt catgaaatat tgctgcatga 60

tgggtataat gaagaccacg aggctaatgc ttaactatct tttcagtcac ggaatggtga 120

tatatctgaa aactttggtg gtaaaaagcg tgcaaaccat gcctttaagt ctaaagaata 180

cacgactgca atcgagtgtt actcaaaggt ccttgactca ggtgcaatgg tggcttcaac 240

catgcttgga ccg 253

<210> 20270

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F9

<400> 20270

attcccgacc tgaacgaccc gaacaatcca atcatactct acatatctct actctacctc 60

gtaatcaact cgctgatct gacgtctcta ccagggggg acaatccctt aaaccttcta 120

cacaacctat ctactcatct aaccaacct 150

<210> 20271

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G1

<400> 20271

atcttatatt acccctgcag acaatttcct caccatttca atgtacatag ccgccagagg 60

agattcacat cgagcaggaa aacagtatct agacgatcat tacttacata tatactgaag 120

accaattaat acacgaattc gcacccttta aacacgcact acttgtccac attcctgctc 180

attcaccaac acatatgtac gaacaatata cccaattca tatttgcatg tgctagtaaa 240

cacctaaaca catacacaat cacaacactc atgctaatat agcaggtgat attattaatg 300

cttcacttta ctctgatcat ttgacactac atgctcttga aactact 347

<210> 20272

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G10

<400> 20272

gcggcaccgc accgggtact attttgacct cggtcgctca aaatctctgt ctgtcggccc 60

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gctgctcgtc gcctactgct ccctgtccca agagggcggtg ctcgggcgacg tgccgacgta 180

caacaagctg gtcttcatcc tggcgggggca gtccaacatg gccggccgcg gcgggggtggt 240

ggcgaaccgc tgggacggcg tgggtgcccg cgactgggag cggttccccg cgggtgctgcg 300

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cgtaaccac gccgtcgggg tgggccccgg g 391

<210> 20273

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G11

<400> 20273

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gtttcaggca tgagggctgg gggctctgat atgccaaatt attttgctcc agttgttcaa 120

caccaacagg gccaacaggg ttcacgcca agtattaagc gtggaacttg gaccaagggt 180

cagcaacctg tgccaccatt tcagca 206

<210> 20274

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G2

<400> 20274

ccgacgcaag ccacgcatac gcgcagctat tgccagagca cactctgttt taagtgcatt 60

acatatcgct gcaggacggg tataatgaag acgacgaggc taatgctgag ctatctctgc 120

aggcatggaa tggtagacata tctgatagct ttgatgttaa caggcgaaca aacaatgcct 180

ttatgtctaa cgaatacact gactgcgaga cgatgttact caacgttcct ctactcacgt 240
gc 242

<210> 20275
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-G3

<400> 20275

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ctgaagcagt ctgctgttga ttacttgaat ggatctgatt atgcatctca ggttcttttg 120
ccaagagaac atctagagaa acaatgttct tatgatgctg cactgacctct gcccttctct 180
agtaatttca gagatgccac tgtcagaagt gttattcctg acccatatgt ttttcaaagc 240
ttcggtagtt catcgagggt gtcctcaata ataccaaata gagatgacat ggttgctact 300
ttacttcaac aaacatcact tggactgcct nctcaatgga tacgaccgtc tccaccaaga 360
cttgaaatth ttgaaaggga gttacagtgg ctgaaca 397

<210> 20276
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G4

<400> 20276

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gcgcgggggc tagggtgctg gcgctggacg cgcactgcat cgcgtggcgt ccgggcggcg 120
gctactgaac gcgaaagacg gatgcgctga ccactggggg cctgcgccga gctgcatacg 180
tgcggggcag cccgcgcgcc gacgccgact gctggggccga tgcgccagag ctgggaagac 240
cccaagtgct gtgcgtgc 258

<210> 20277
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-G6

<400> 20277

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cctaacgaag gtagccatgg cggngagagg taaggcgatc ggctcaggcg ccgccaagaa 120
ggccacgtcc aggagctcca aggctggcct ccagttcccc gtgggaagga tcgccagggtt 180
cctcaaggcc ggcaagtatg ccgagagagt cggcgccggc gccctgtct acctcgctgc 240
cgtgctcgag tatcttgctg ctgaggttct tgagctggcc ggcaatgcgg cacgtgacaa 300
caagaagacc cgcacgtac cgagccacat ccagctcgcc gtccgcaacg acgaagagct 360
ctcccgttg ctgagcacgg tgaccatcgc tagcgggtgt gtaatgcca acatccataa 420
cc 422

<210> 20278
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G8

<400> 20278

tgtgggtcta gatccactgc taccctgct cactgatgat ccgcgaacag gttga 55

<210> 20279
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-G9

<400> 20279

caacatctca aatcaagcta gttgaggggt cctatatttga gaagttctat aagcaaacgg 60
ctgatatgga tccagctcag cgtgctgcct ttctcgagga agatgatgag atggaagatg 120
cacattctgt tgctgcatct gctggtgaca ctgatgtgaa ctttatgagc ttgatggacg 180
aaaatcacia ccacattcc atggcccttc atcacctgaa accttggtgc aggatgctgc 240
aaaagtcatc aaagctagaa ttgcagagaa ccctaactct atgaacttca acgtcatggc 300

tcttttcaaag aagtgaagtg tactgtgatg gatttttcttt ggcagaatac 350

<210> 20280
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H1

<400> 20280

gatatgaatt aagtgaatca gatgaatctg gtacagaaga tgaggagaca acagtcagga 60
aaaatagggg tgaatcattg aagtctggtg gccaaagatc aagaagaacc tcagcacttg 120
aattggatga tgctagtctc acaccttata agttaaagtt taagaggggt aaaattgtag 180
aactcccact agacagcatg ggccaagga ggctgaaatt tacaagaaag tctgcacatg 240
aagcttcaaa tcgtgaaagc caaccagcta gaaggattta tagaaggaac agcaccagta 300
ctgctgttcc tactgatgtg gaatctcctg gcgtgaaact gagacatcaa gatgcacaag 360
agaagaaaga tgcacaagga ttgttcaata atggaattg 399

<210> 20281
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H11

<400> 20281

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ggacagcctg attgttctag caagcagagg ggggtgcaac ttttcttgcg ctgggcaatc 120
atgcaaggca ttgcaatgca tctacagaat agataccagc ggcaaagatt gcgtactcga 180
atagctctag gaaaggctaa aagaatggat gtcgttgctg gcgaaacagc tgggtgtggag 240
gggcagctct tgctgctata tcctgtcctt ttcattattac aggtatgttg cgtgtgcaat 300
tcgaatcatg gcagatccgg gtggtttgtc gaactgag 338

<210> 20282
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H12

<400> 20282

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tatggaacat tcaagcggag ggtataccat ctgctgtcgt actggcctta tctacgaggc 120
atggacaatg atgtacgttg tagacactac aggaatggat aac 163

<210> 20283

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H3

<400> 20283

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caagaccac aagagcaatg cgtacttcaa gcgtttccag gtgaagttca agagaaggcg 120
cgctggcaag acagactaca gggccaggat aaggctgatt aaccaagaca aaaacaagta 180
caatacacc aaatacagat ttgttgtgcg atttaccac aaggacatca cagcacaat 240
catctctgct agtatagcag gtgatatggt tcttgcttct gcttactcgc atgagttgcc 300
acgatatggt cttgaagttg gtctgaccaa ctatgcagct gcctactgca ctggccttct 360
gttggtcgc cggtgtgctca agaccgtgg tttagataag gaatatgagg gcaatgttga 420
ggccactggt g 431

<210> 20284

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-F3

<400> 20284

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ggcttcaggt ggagcaagaa agttgtatgt tggcaatctt cactcaaata ttactgaaga 120
ccaattaaga caggtatttg aaccatttgg gcaagtggag cttgtacagc ttcctctaga 180
tgcaatgact ggactgtgca aaggttatgg ctttattcag tttgcccggc ttgaagatgc 240

aaaagctgca cagagtttga atgggcagct tgatattgcc ggcagagtta ttaaggtttc 300
agctgttact gatcatgtgg gagtgcgaagc tagtggagct actactggag atctagatga 360
tgatgaangt ggaagcttgg cgcttaatgc aagcttc 397

<210> 20285
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H4

<400> 20285

acggttgacc gcgccgacag tcgccgtatg tccctcgtat tcgcaccgcg cgctgttgtc 60
catccttgtg cagcaaaaat gactgctggc tacattgctg gctcactggg cggatccttt 120
ggcattgcat acctgtgtga cacatttatc tctgacaaga aagcatttgg aggtagcacc 180
cccaagactg tttctgagaa ggagtgggtg caaggcacag acaccaag 228

<210> 20286
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-H5

<400> 20286

accataccct aactccaaat tcccaattgt caatctctac tcagagttcg agtgaccgtg 60
tacgcgcgcg gaaagggcgg gaaggcgcta ggcaagggcg gcgcgaagcg tcaccgtaag 120
gttctccgtg acaacatcca gggcattacg aatccggcga tccgtacgct ggcgagaagg 180
ggcggactga agcgcattctc ggggctcata tacgaggaga cccgcagcgt gctcaagatc 240
ttcctagaga atgtcattcg cgacgctgtc acctacacgg agcacgcccg gcgtaagacc 300
gtcaccgcca tggacgtcgt ctacgcgctc aagcggcagg gccgcaccct ctacggattt 360
agcggctgaa gggtcacggg tgtccgacaa ctgctgctgg tcgt 404

<210> 20287
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-D8

<400> 20287

cacagacaag tggtttccaa agccaagtgt gtgtactagc aaccagctag ctcgggcggc 60
agcaggcagc catcatgtcg gaggagaagc accaccactt cttcaaccac cacaagaagg 120
acgaggagca gcccgccggc gactacgggt actccgagac cgaggtgggt accgtcaccg 180
gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240
tcggcgaggc cggcgccatc gccgncggcg ccttcgcact ctacgagaag cagaggcga 300
tagaaggacc tcgagcacgc gcacaggcac aagatcacg 339

<210> 20288
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D9

<400> 20288

gagccagcca gccagccagc cagccagccg cttggggcgcc atctctctag agcgtcgtac 60
cctcgaagag agatccggcg cggccaata aacacccggc tcactacaga ctgcgagatg 120
gccggcctca ggatgaagtt cgtcgccgtc gccgccatgg ccgtcgcgct cgtggcgctc 180
gccgcagccg ccgaggctcc cgtcccggct cccgcgttcg acgcc 225

<210> 20289
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E1

<400> 20289

aagtaatgac tagtgtgcgt gtgtctatcc ctttctatgg gtttgtgcgt gatggctggt 60
catgggtggtg gtgggtgtgg gtgtgcttcg gtgcgtattg ctgcctactg tgctggtggg 120
tttattcggc aaatggatga ataggttgca gtaacaataa ttatgcatcc agaaagaact 180
gcaaaaagtg cggcttgccc aacgaggaag catcaatgcc aacattgcaa atggcacgga 240

tgactatgcc aacttatgca acttatattg caagactaca aagccttgct gcttctgctt 300
 ctgcctataa gatgaacttt gggatggctg ccaattcacc tttgcagcag caactacttg 360
 caaatgcaaa ctggccctat gggatggctg gtagatatgg gatgcaatct tctggg 416

<210> 20290

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-E10

<400> 20290

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 gggtacaatg ctgctactgg acagtacgag gacttgatgg ctgctgggtat cattgaccc 120
 acgaaggtgg tgagatgctg tttggagcat gccgcgtcgg tggccaagac cttcctgaca 180
 tctgatgttg tggtcgtcga tattaaggag ccagagtctg cgcccccttg taacccgatg 240
 gacaactctg gctatggata ctaatggaga tgagatggcc aagccgcatg ggaagaaagg 300
 tgatcaccat tttttttttg gtaggcgaga agagtcgggt cgaggtagtt tttcatcatc 360
 agattaataaa agcgagtttg ttgtacgacc attangcgaa a 401

<210> 20291

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-E11

<400> 20291

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 gcctattgga taacattatt gaacagtgtg ggattgtgtc actttatatc tggaattttt 120
 ttttctggta gttataaaaa gtaaccatct tggtagttga tacaaccaga tgccgcgttg 180
 tatacgggct gatggtcctt tggttaactt tcggcattac atttaacttt cgnggttaat 240
 tgtccaggag gaaatagagg ttgagggaaa gttattacgt gctggaaaat cagtcgggtg 300
 cgtctccgta gatttcagga agaaaaagac agggaaattg atggcacagg cccgtcacac 360

caagtatctt gtggcatcaa gcaaactgtg aggcgc 396

<210> 20292

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E12

<400> 20292

gcagctgttg atgcagttaa agaaccattg gaagcacaac tgtgttcaac aaatactgaa 60

gcagagaagc taagagatgt tgtcaaagca cttgaggatc aagtagaaaa agagaaggca 120

ttgtgcgaag agcttgcagc aaaggtagag ttgaaaacta aagcagcaag aactgctgag 180

gctgttcaag aatccttgga ggcacaactg tcttcagcaa atgctgaaat acagaaactg 240

gaagagatca cgaaacaact acagagttag ttagaaaagg agaagacact tcatgaagag 300

ttctcagcac agttagagat gaagattgaa gcggagagaa ctggttctat ggaatctgct 360

aaagaatcat tagaggaaca attccagtta gtgaactcag aaacag 406

<210> 20293

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E2

<400> 20293

aagatttgag ctctccattt gatcacacag taatatccaa tgcaaagaa atgcagtgc 60

acagaaatgc agatgacaat ggtttacctg aggattcaag caagcatact aaaagaacag 120

gtcgcaaggt gggcatttta agtcactgcc caaagcgact agttgctctc aaagtcattg 180

atttcggcca gagattctat ggtttttctt ctgaaggtaa cattgaacca acagttgagt 240

ctgagatatt taaagcactg gaaagagcaa aactgatggt tgccaatagg aaagaatcat 300

gctactcgag gtgtggaaga actgacaaag gagtttctgc tactggacag gtgatttctt 360

tatatctgcg atcgaacata aaggatgttg ggggggacat gttagatgaa agatccgaaa 420

ttgattatgt gaag 434

<210> 20294

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-E3

 <400> 20294

 aaacgcccatt cattccagat gagatcacca gtgtctacca caacgactct agtgaaccat 60
 gcaaaaggag cgtccaagtc gtttgacgga ggctgtagat cacttgaacg ctataagggc 120
 catgtaaacy ggaatgggtat gaacgtatct accgattcca gtgaagataa agattcaaac 180
 aactcagatg agaagtgtaa cgagtttgca tctgctgagt cggaggactc ggtgtcaggt 240
 gttctatatg atatgttgca aaaggaggtc atttctctaa ggaaggcgtg ccacgaaaag 300
 gatcagagcc tgaaagacaa ggacgactca gttgagatgt tggcaaagaa agtagatact 360
 ttgacaaaag ctatggagtc agatgccaag aaatcgaagc gcgagct 407

<210> 20295
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-E4

 <400> 20295

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 cgccacatca ttccgtcgcc tccggggcct gcgcgctagc tgctagaagg gcctcgccgt 120
 ccgtcgtggt ggtgggtggtg gtgtgctgagc agcgggaggg gaggggaggg gattcgctcac 180
 tgcgccgaca caatgccaca ggaccagtga gctgccctgc ggc 223

<210> 20296
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-E5

 <400> 20296

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 cacagtctca gggacgagtt tgccaaatat gggcaagtca ttgaagctag gattatcatt 120

gaccgtgagt ctgggaggtc tagaggtttt ggctttgtaa cttacacgtc ttctgaggag 180
gcttcagctg ccattactgc cttggatgga aagactctcg atggacggag catacgggtt 240
aatcatgcta acgagaagac cgggtggcttt cgtggcggcg gtggctatgg tggcggcggc 300
tatggtggtg gtggaggcta tgggtggtgct ggtggaggcg gtggatacgg tggcggccac 360
tatggtggtg gtggtggcag cggtggtat 388

<210> 20297
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E6

<400> 20297

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catgatcaag cctgacggcg tccagagggg cctcattggt gagatcatca gccgttttga 120
gaagaaggcg ttctacctca aggccttgaa gcttgtgaac gtggagaggt cgtttgcgtga 180
gaagcactac gccgatctcg cctccaagcc cttcttccag ggcctcgtgg actacatcat 240
ctctggccct gtggtggcca tgggtctggga gggcaagagc gtcgtcacia ctggccgcaa 300
gatcattggc gccaccaacc ccctggcttc tgagcccggc accatccgtg gcgactttgc 360
tgtcgacatt ggcaggaatg tcattcatgg aagtgcagc attgatagtg ct 412

<210> 20298
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E7

<400> 20298

agttcatccg cagcagtggg gaatatgaca agaattggctt cgtggaggac acagataagc 60
ccttcgagaa gctgtccacc atcagtactg gaattaatat gttggaagag gatggagaag 120
ttgatgcata tgtatcccct cataaggaga tagaccacaa caatgcagca cccaagcgaa 180
agaaagccag gttcatgata ccaaagagtg ctcagggtgga cagtgaagtg cgccgcgagc 240
tgcaagagct catggacgct agggaggcag gcatgttctt catcctgggg cactcgtaca 300

tg

302

<210> 20299
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E8

<400> 20299

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ctgacgagga agttaggcaa ggtttgaaga cgtactccaa ctggcccacc ttccccagc 120
tctactacaa atcggagctg attgggggat gtgatatcgt tcttgagatg gagaagagcg 180
gagagctgaa gtcgaccctg tcagagtaga cacctagcta gcattcttgc ttcgctggcg 240
tttttatcac attgcctgca ttggatcact ctactctggg attcatgcc a ttatattcat 300
agatccacgt tggacttgt ctgcagtgcc acattgctag aattggga 348

<210> 20300
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-E9

<400> 20300

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gacaaggtgc aggacaagtt cacgcagtac tggctcttct ttcgtcgacc caaggggacg 120
gtcaacaagg cggcgctccgc cgaaaaagtg ccagccttcg tctacacctt ctacaaactc 180
gtggccgaca tctacgaatg ggggtggtgc cagtc 215

<210> 20301
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F1

<400> 20301

cagtgttgaa aagataattt ctgctgctgc tttggttgag aaggaaaggt ctagaagact 60

cagcacctcc attcttaatc aagttattag agaagctata gcattcaaat caccaccaag 120
aacaagaggt ggcaaaagag gtcgtgtcta ttatacaaca caggctgccg tcggtccacc 180
aacattcggt ctatttgtaa atgatgcgaa gctcttcctt gacacgtacc ggcgttacat 240
ggaaaagaaa ctccggtcag acgccggttt tccaggcacc cctattcagt tactggggcg 300
tagcagaagg cggccagaca aacgaggtaa atctgctgac agtagagcgc agagcccaag 360
aaccctaac g 371

<210> 20302
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F10

<400> 20302

atcagctttg acttaccttt gttatgggca acatacttta tggttatattg gtattaaaaa 60
tctttttacca gacaatgatg aattgctgtt tgaattaggg tccatttggc cgcacacatc 120
tctggctctg ctggcagctg tggcctgtga gcagatggag gtgcaccaag tgcatatggg 180
cgtctagcag aggatctgga gccttaggtt tatgtaagcg gagccactct tgggtgctccg 240
tcgcccttct ggcttggttag gattgcctgc acggagcctg cccaaacacg atcttagatg 300
tagatcatag atgacctact tggggttcca catgagtgat tttacaacat tttgaactag 360
attgtgattt attgttcttg acttcaattt tcaatattta tatatc 406

<210> 20303
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-F11

<400> 20303

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acatactcaa taacatattt ataagacaag attttttacca tggctttcct gcataacaat 120
attaacaata atacactcat tctctttctt catattctct t 161

<210> 20304

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-F2

 <400> 20304

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 ttggcaggct tgtgtcactt gagatgggga aaattcttcc tgaagggatc ggtgagggtc 120
 aagaaatcat cgacatgtgt gattatgctg tggggctaag tcgccaaacta aatggatcca 180
 ttataccatc tgaacgacca aaccatatga tgatggaggt gtggaatccc cttggagttg 240
 cgggtggtat aacggcattt aatttccctt gcgctgtgct tggttggaat gcttgcattg 300
 ctttggctcg gggaaattgg gtcgtctgga aaggttctac aacaa 345

<210> 20305
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-D7

 <400> 20305

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 ggcccgccgc cggcgccggc gccgcgcgac gacctgccc tgcgccgga ggctcgctg 120
 cagcgggtcc tggccaagcg caaggaccgc ctctggagc gcgcccccta cggcgccccg 180
 tccccatccg aggaggcgga gaaggcgaag ccggcctcct ggctcgggct cggcggcacg 240
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 gaccggtggc gatttgattg gctgggttcc tggcttcttt tgggtcttgc tggattgggg 360
 ttggtgtgga gatcggaga 379

<210> 20306
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B8

 <400> 20306

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 cgggcacatg gcctgacaca cagaacgacg tgggtggttct gtcgggggac ctacaatggt 180
 acaatatacc acctgcccatt gctgtggctt ctgccgttga gaacggcata ccgagagtcc 240
 ctgccggcgt atctatgctc ccactgcttc gcctgctgct ggcaaccaca cacgttggtg 300
 gactgatgga gategaaaag gtacagattg tcatggaatg ctaaaggatg agcgctgaaa 360
 attc 364

<210> 20307
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-B9

<400> 20307

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 ttcgctcctc ctctccaag ccgcaactgg tcccggcggc ggcggtcctg gcagcggcgc 120
 tgctgctgct ggcgggcggg gccgggacgg cgtcngcggc ggtgagctgc ggcgaggtga 180
 cgtcgtcggt ggcgccgtgc ctccgggtacg cgatgggcag cgcggcgtcg ccctccgcgg 240
 cgtgctgcag ggcgggtgcgc tcgctcaaca gccgcgcgtc gtcggcggcg gaccggcagg 300
 ccacctgcaa ctgcctcaag agcatgacgg gccggctcgg cggcggcgtc agcatggcca 360
 acgccgncaa catccccggc aagtgcggcg tctccgtcgg cgtgcca 408

<210> 20308
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-C1

<400> 20308

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 gattagcgtc ggcaccgtgg aggcgtcaa ggaccaggcc ggcctgtgcc gctggaacta 120
 cgcgttccgg caggcggcgc agcagctgca gcagcagcgc gccaggaggc cagcatgcgc 180

gagcgggtca gtcggccccc gcagcggcag cggtagcgcg cacgcgccgc ctgcttctgc 240
 tcgctcggtc tgcgccgtgg cggctaggag gagagccagg catcatcatg aggaggagct 300
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<210> 20309
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-C11

 <400> 20309

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 ggaggccagc gagcagcaga ggccggcggg gacgcgttcg tgagggtcca gggcaccgcg 120
 ttcgtgcagg acggcaagcc gttcttcgcc aacgggttca acgcctactg gtcctatgaca 180
 ttcggcgcgg accccgcgcg gaggggcaag gtcacctcgg cgctcagcca ggccgtcggc 240
 gccggcctct ccgtggccag gacgtgggcg ttcagcgacg gcggctgcgg cggcggcagc 300
 gcgctgcagt actcttcggg ccgctacaac gagaacacct tccaggggct ggatttcgtg 360
 ctgtctgang caaggaagca tgggattaag atgattctga gcctcg 406

<210> 20310
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-C2

 <400> 20310

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 tacctctttg ctggtgttgt ggatggacgc aacatctggg ctgatgatct tgctacatct 120
 ctcagcactc tccagtctct tgaggctgtt gttgggaagg acaagcttgt cgtatcaact 180
 tctgctcgc tcatgcacac cgctgtggat cttgtgaacg agactaagct tgacagcgag 240
 attaagtctt ggcttgcttt tgctgccag aagggtgttg aggttgatgc tcttgctaag 300
 gcattggctg gtcaaaagga tgaggcttac ttcgcagcaa atgctgctgc tcaagcctcg 360

aggaaatcct caccctgtgt gaccaatgaa ga 392

<210> 20311
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-C3

<400> 20311

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actcggggcg gttgccgggc cgggggtccgc gatcgatggc tgcgcggcgg agcaggggct 120
gggcgcgcgg cgcggcggcg ttcgcggccg tggcgctggc ggtgggcgcg gggcggaggt 180
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acgccatctt cttcgagggc ggcgcgcgc tcattctcgg cttcctgcca ggcgtcgcat 360
gcgtcttctc cgccaagtcc ntcgggcctc gctctccttc tggatcggca gggcaatttt 420
c 421

<210> 20312
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-057-Q1-K1-C5

<400> 20312

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gctttccaac aagtggcggg aacatttttg tggcgtagat ccctattttg ttggggctta 120
ttgcctgctc tggtagcagc acgaattaac tagcttttgc cacaagcttg gtgttagttt 180
gtgagggtga ataggccagt gaaattgttc tgctgcttag catagttgga tgccaattga 240
tctatagggt tagaatgcat tttagctttt cctttgctaa tcaaattgcc aactgctaatt 300
cttgatcctt ggctgttgat gcacttttct gctcgatgca tgcaaagaga ttatttcatt 360
tatagcacan attaatgga agcagcagct ggttgcttct tcaacatgcg cattc 415

<210> 20313
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-C6

<400> 20313

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 ttgaaaagct tgtggagaag ttgtttgaag ccattgctgg tgacatgtct gaccacctcc 120
 cattgcagca tgtgagcaga actatctcag acaagttgca gaagcagtgg attctagtta 180
 tgcatacgac ctaccattct tgtctaagga agatagctgg aaagtgttcc aacaatgttt 240
 tggaattgcc atgaaagctc tagaccctga atttccaaca atgttttgga atgaaaggaa 300
 ttgaagaatg gcagtcata tgcaatagta atttattaga tgtccaggat gacgaacata 360
 gagtatttgc atgcttgtgg ttgaagtttg ttcatttacc g 401

<210> 20314
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-C8

<400> 20314

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 cggcgtgctg gctgctggcg gcgggggccc ggacggcgtc tgctgcgggtg agctgcggcg 180
 aggtgacgtc gacggtgggc ccctgcctag ggtacccgat gggcagcgcg gcgtcggcct 240
 ccgcggcgctg ctgcagcggc gtgcgctcgc tcaacagccg cgcgtcatca gcaacgggtgc 300
 ggcggggccac ctggaactga ctgatgagca tgacc 335

<210> 20315
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-C9

<400> 20315

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aagtttgtgg cagaggctaa gtttcaggag tccccggaag cttacatgcc agccataata 180

gctcaggacc gtgatcaact catgcacctt ctcacatatg aaacgggtgga gcgtgctatc 240

gaacacaggg tggaagccaa agccaagatc ttcgggcaag aggtgaacat cggtgtggag 300

gacaacggca gccaccgggt gtacaagatc gttccgagct tggtcgccga gctgtacagc 360

tacagaatca tgccgctaac caaagagggt caaatcgcgt atttgctt 408

<210> 20316

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D1

<400> 20316

acaaaaagag aaagaaaggt cgacagggca cttcttgctt ggtgcgtata gaccaatgtg 60

ccttaaacia aaaggtccat atgtctccga gacaactcta accccgccgc cttctatata 120

cacacagtgc agcacctgat aaaaaggtgc atgacgttcg ggatgagcat gtaggagtgc 180

a 181

<210> 20317

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D10

<400> 20317

gtggcgccca agacacctct aggtatcaaa gctaaagaag ctatgaataa gggagagctt 60

gtttcagatg atttggttgt gggcattatt gatgaagcta tgaagaaacc ctcatgccag 120

aaaggtttca ttcttgatgg ctttcctaga actgtgactc aagcacagaa gcttgatgag 180

atgttgccaa agcaaggtgc caatgttgac aaagtccctga actttgcaat tgatgatgct 240

gtattggaag aacggattac tggtcgttgg atccactcag ccagtggtag gacttaccac 300

tcaaaatttg caccttcaaa gtcttcaaga attgatgatg taact

345

<210> 20318

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D11

<400> 20318

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aagcttccaa catgggggga agttgttatt gccctgttcc tctgtctttg ttaagccttc 120

tggtcctttg ccaaccggcc ggccggcgctc aactacgggtt cgtggcaaag cgcccacgcc 180

acgttctacg gcggcgggcga cgcgtctggc acgatgggcy gcgcgtgcgg ctacgggaac 240

atgtacagca cgggggtacgg caccaacacg gcggcgctga tcacggcgct cttcaacgac 300

ggcgccgcgt gcgggtcctg ctacgagctg cgctgcgaca acgacgggca gtcgtgcctg 360

ccgggcacca 370

<210> 20319

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D12

<400> 20319

caatggaaag gtcgctgatg agtggacatg cagagtgcag ccctacgtca tgctgacgat 60

caccatccct gggatcagaa accattcatg gtattccttc tccataataa cctcatgagc 120

aatgtattcc agaattccca 140

<210> 20320

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-D2

<400> 20320

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gccctctga tccggaccga ggcgcggcca tggcgctcgc tttcgacgag ttcggggcgcc 120
 ccttcatcat cctgcgggag caggagaaga agacgcgcct taggggggctc gacgcgcaga 180
 aggccaacat cgcctcggcc aaggccgctg cgcggatcct ngcacgctg cttggacca 240
 aaggcatgga taagatgctc cagtcccccg acggcgacgt catcatcaca aatgatggag 300
 cgaccatcct ggagcagatg gatgttgaca accagatagc aaagctgatg gtggagctgt 360
 cccgtagtca agactatgaa atcggggatg gtaccaccg ggtggtagtc at 412

<210> 20321

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-D3

<400> 20321

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 tgttttttgg ccgatcagtt tgcacgac ctattaaatt ctgaacaaca ggtatttata 120
 tgcacattat tcaaatttaa actggcattc tctacattat gcaaatatgt tgg 173

<210> 20322

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B6

<400> 20322

tcgatatggc cggccattgt acatcatata tttgcttaca gaagaagtgc atccttaatt 60
 atgacactgg gatgggattc caccttcacc atttttatgg gggtttcccta gactagacac 120
 actggatgac tgaacacgac ttagagagca gcagtaaact tacagctgca ttttgttata 180
 ttttttggtc attttttttt ttacttgctt gctatacaaa aggaacttct acagttgagc 240
 cacactatcc actagctcga accaccgtta cttcgacttg aaagagcaga ccacgagtcc 300
 acgacagcgg cggcagccag gagcaaggct gcaagagggg cagcagcctt ccgttctaga 360
 tcgcga 366

<210> 20323
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-D4

 <400> 20323

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 ctggcaggca cactcctggg acattcacca accagttgca aacctccttc agtgagccac 120
 gcctttcttat cctgactgac ccgaggactg atcatcagcc cattaaggag tctgcgcttg 180
 gaaacattcc caccatcgcc ttctgtgata ctgattcccc tatgcgctat gttgatatcg 240
 gcattcccgc caataacaag gggaaacaga gcattgggtg tctgttctgg ctgctcgccc 300
 gaatggctct ncagatgcgc ggtacaattc ttccaggaca caagtgggac atcatggtag 360
 atctttttctt ctacaga 377

<210> 20324
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-D5

 <400> 20324

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 tactttttgc cc 72

<210> 20325
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-057-Q1-K1-A10

 <400> 20325

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 gagccaccat ggggtggccag atgccggacg ccgatgggaa ggcccgcctcg gcggactcct 120
 cgtcctctta cgggtacccg ccgtcggcgc cgtcgcagca ccagtacggc acctttggcc 180

ccccatccgg agcctccggg gagtttccgc agccggcggt cgggttcccc cagccggcgc 240
 cgtcgncctgg gatgcagcac taccgcagc cttcttcggc gtcgtatgcc gtctaccac 300
 ccccgagc 309

<210> 20326
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-A11
 <400> 20326

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 tacgtccgtg cgtcgaccgg aaggccgtcc cctggcccct gtcgctcgtc ttcttcgggc 120
 gtcgctctta ctccgaacgc gcgcggggccg ccgacctgct tgttctcttg gaggagcgcg 180
 cccggcgggc aggcgacgca ttccagcgga ggcttgagga agaatgcgag cgaccggtgg 240
 atccccgtcc atccgtcccc tgctactatt ccttgggtcg ggcgctcgtc atccactctt 300
 cctgcagccc tccatctgat ccccgtaga ccgttccctg ctgctcttcc tgggtgctcg 360
 ctgctacagt gtcgggaccc tgctgcagtg ctgctcagtc gcgt 404

<210> 20327
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-A12
 <400> 20327

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 catccccaac tgcattgtgc tggacaaggt ggagtcgtgc tcgagcaact gcgaacggtg 120
 cgagtttctg tatcattcgg acccttctcg cttccaatgc cgagacatct tccacggcta 180
 tcttggtccc aagtgcagga catggatcag tacgagcaac tagctcagct cagctacttg 240
 ctaaaagtag cgtagcgcag cgcgcgcggc tacttgctag tatacgtacg ttcacaaatt 300
 aaaataaaag tggctagcgt acaaagctaa catctgggtg ttcgtcccga catggacgat 360
 tagcctagct cgatc 375

<210> 20328
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A2

<400> 20328

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 gcagcctcaa acagggtggt tgaagtgggtc tatgagtatg agacttcatg cataccaaga 120
 cacatgcttg gcaacaaagt cgcctatatc caaaaccag ctatagataa gacctgcaca 180
 tggattctca aggttcctag ggatatgaag cacccaatct acgtatatta ccagcttgac 240
 aagttctacc agaaccacag gaggtacgtg aagagccgca gcgacaagca gctgagagat 300
 cccaaagagg ccaacagcac gcagcagtag tgcaagcccg aagctaccac cgagcacggg 360
 agcgccgtcg tcccctgcgg gctcgtggcc tggagcctgt tcaacgacac ctaca 415

<210> 20329
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A3

<400> 20329

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 gctccggcgg ctccgtctgg gcaccggcgc cgcctgtgag gtgggccctg ccgacgagga 120
 ggcagtgatg agggcgtacc acgagcgggt ggaggaccac tacaacaacc gcgtgtaacg 180
 tccgttccat tgacaaggag gacctcatcg tctgtactga tctggtcag acgactgcct 240
 gtggcgacgt catgaagact gaaatacgct tcaacgtgga ctccagtaaa agcggctact 300
 cctgcattat gaccataggg tgatgcttcg ccataacgtt attgtacgaa gctactgaat 360
 ggggtgcaggg aaa 373

<210> 20330
 <211> 166
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A4

<400> 20330

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agcaagaccg cgccagggcg gggagcttcg tctccctggg gggggcaccc tcacaaaaaa 120
ccacctgcta aaaaaaaaaa aaaaaaaaaag gttttcctct taaaaa 166

<210> 20331

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A5

<400> 20331

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cggggtgctcc cgcggtctggg tctgggcacc ggcgcgcgcg gtgaggtggg ccctgccgcc 120
gcagctacag tgattaaggc gtaccacgag cgggtgggtgg accactacaa caaccgcggy 180
aacgtccgtt cctttttacaa aggagacccc aacgtcggta ctgggctggg cggcgcgcca 240
gactgtggcg acatcatgaa 260

<210> 20332

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A6

<400> 20332

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gacatgtttg gcacttttgg ttccctggct ggtaccatct gtgacaaatc cgctcgct 118

<210> 20333

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-A7

<400> 20333

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gactgctgcg gcggcggcaa cgtctgccat ggacgatccg gacgtactga actgccgcga 120
catatcttgc tggatcactt ccggagtgtt gctaccgtcg accgccattg tgattgtgcc 180
ggcaccgttc gactagtgcg tttaccacat gctgaaccga tcctgacttt accatgcagc 240
gaagcttgag acgtgtgact aggatgacaa tgcggtgacg accagtcgtg tggactgtga 300
actgtcggac ttgtacaata acttcaacag cacactgcac gggac 345

<210> 20334

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-057-Q1-K1-A9

<400> 20334

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tctatggaaa gcctgcaaat gaagattttg aggcagataa tgcccactgg aaacggggtg 120
taagtaaadc gtatgtgaat ggcatgggaa ttgactggtc caaagtgaga aatgtcatgg 180
acatgagagc tgtgtatgga gggtaagtaa atggtttttc tagtttcttg ggcatgttta 240
tttatttatt tatttttggg aattcagatc acactacata actactagtt acccaagctg 300
gcacatagct aacttaaaac ataacactat aacaagcaac ttgtccacca tatgtcatca 360
agcatatntc tttgaaagat tcagtcaacc tggagaaatt atctttattg gtca 414

<210> 20335

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B1

<400> 20335

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cggcacgcgt ctgcgcttcc ttcaagctac acccgaggca ggtgctcgat gcttgacagt 120
tcgcgcaagg gagaagcatt gagaacaggc ggaccgacga cgaacaaggg tgggtgtacgt 180

acaagacgtg gtggacgagc gagcatggcg gaccttctac aacgaacttc aagatcacgc 240
ctgaaggt 248

<210> 20336
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B10

<400> 20336

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gctgctgctg gcggcggggg ccgggacggc gtcggcgctc gtgagctgcg gcgaggtgac 180
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cacctgcaac tgctcaaga gcatgacggg ccggctcggc agcaacgtca gcatggacaa 360
ccccggcaac attctcggca agtg 384

<210> 20337
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B11

<400> 20337

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cggcggcgag atccggcttc cggtcgctgg cgggtgcgcg cgccccgttg aggcgccgca 120
tgtcctcttc cgtccacgac gacgcctatg agacggccaa gtgggagaag atcacctacg 180
ccgggatcgt gacctgcacc ctctggcggc cgtacaacct gtccaagggc cccccccact 240
tcgatgagcc gccggcgtag ccctatcttc acattcgcaa catggagtgc ccatggggcc 300
ctgatggctt gtttgagacg aaggaccacc actgagccct gattagcaca ccttcaggag 360
ctggtgcacg cttaaaagag ttatatgggt gtttcagtga t 401

<210> 20338

<211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B12

 <400> 20338

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 ctctgcctg cggcggcggc cgtggacgcc agggctctct acctcaagat gaaaggggac 180
 taccaccggt accttgccga gttcaagacc ggcgcagagc gcaaggacgc cgcggactct 240
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 ccgatcaggc tcgggctagc actgaacttc tccgtgttct actacgagat cctcagctag 360
 ccggaccgcg cctgctcgat ggccaagcat gccttagac 399

<210> 20339
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B2

 <400> 20339

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 cggagatgct aaagtgtgtg acatggatga gccaagcacc ggattagacc cagcttcgag 120
 gaagagtctg tggagcgcag tgaagcaagc aaagcaggat agagcaatca ttctcaccac 180
 gcattccatg gaagaagctg aaactctttg tgacagactg tgtatcatgg tcgatggaaa 240
 gctccagtgc ataggcactc ccaaagagct catagctaga tacggagggt actacgtgct 300
 gacgatgacg aactgcgcg agttcgaaca agaggctgaa gatctggtgc gc 352

<210> 20340
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-B3

 <400> 20340

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 aatgcagga ctaaaaatta gttcttgga ccaaataggt ctaacactct aaaaggaaga 120
 gctgcagtgt tttctagaaa tgatttgtga cagaatagtc actgctgtaa agtgggttca 180
 taccaatttg atacaacatt caccttcaca aagaaaattc agatgacatg taagattatg 240
 cctgacagcc tgaggaggtc ttcaaaaac caatctcaca actgctgtct gacatgtcct 300
 ttcattactt aatatgtgtt cccttgctgc ttagaaaaa ctacataaaa gaagaaacga 360
 tagaaaggat gaggttagat gaagaggtgc ttatgggatt tcttcagga acacatcaac 420
 gtga 424

<210> 20341
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-B4
 <400> 20341

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 ggcagcaggc agccatcatg tcggaggaga agcaccacca cttcttcaac caccacaaga 120
 aggacgagga gcagcccgcc ggcgagtacg ggtactccga gaccgacgtg gtcaccgcca 180
 ccggcgaggg cgagtacgag aggtacaaga aggaggagaa ggagcacaag cacaagcagc 240
 acctcggcga ggccggcgcc atcgccgtcg gcgccttcgc actctacgag aagcacgaag 300
 cgaagaagga ccccgagcac gcgcacaggc acaagatcac ggagg 345

<210> 20342
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-057-Q1-K1-A1
 <400> 20342

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 caagttcata aaagcttctc caagtcgtga ggagaagttt gctgagattg ctctgcagct 120
 ggagattccc agtaccaaga ctctttgttt agatgttaca acccagtga acacaactta 180

tctgatgcta ctggctgcct tggactataa gcaggctttt gctacactgg agacatgtga 240
 tgataattac aatgaatctc cttcagcaga ggactggaag aaagttgagg ctagctgtaa 300
 ttacctgaaa ctgctatatg actctgcaca tagtgtgatg gcttcagcga accctactgc 360
 aaacatcttt ttccatgaag cttggaaaat tc 392

<210> 20343

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B5

<400> 20343

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 atcgagggag ggcacgcaga cgctgaggag ggaggatgag tctcttcggg cttggacgga 120
 accagaagac attccgcccc aagaagagcg ctccatcagg cagcaaggga gcacagctcc 180
 gtaagcacat agatgccact ctccggcagt gaaaccttag ggaagctgtg aggttgccctc 240
 ctggagagga tatcaatgaa tggcttgctg tcaataccgt ggatttcttt aaccaagtta 300
 atatgctgta tggcacgctc acagaattct gcacacctga gagctgcccg acaatgacag 360
 ctggcccaaa gtatgagtac aggatggctg atgggtg 396

<210> 20344

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-C10

<400> 20344

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 cggagacaac ggatttggtc gcattgggag cctggtcacc atggctgctc ttaactctgg 120
 taaaatgcat attgttgcca tcaattaccc gttaattgac ctcaactgca tagtatacat 180
 gttgcaatat gatctcacgc atggcaaatt ctatttcacc atcgacgctc agaacttaaa 240
 gctgtgcatt aatggatata taatcaccat cttacaagag ctagatccct gcaagatcaa 300
 atcctgctat gctgatgctg agtacaaaat gcagtcact ggcatattta ccaccatgga 360

<210> 20345
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-C11

<400> 20345

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gggggagggt tcagaaagca tctgctcatc tgcctttcta tcacccatcc tccacaactc 120
ttttaatata tatacccttg gcctctatta cttcttcatt gacctcaact acatagttta 180
catcatccaa tatacatcca cctataatac attacattcc accttcaagt cttaaaaccg 240
taacctagct attaatgtaa atcccatcac catcctccaa catcgatata cctacataat 300
caagcttttt ccattctaac tctcaata 328

<210> 20346
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-C12

<400> 20346

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tgcctggatg agccaggga cacagaagag aagcccacta tctcatttaa tctttacaac 120
tctcttgcaa ggttcctgg ttgtgaaaat acatgagata aatcatgaag gccactatca 180
tcctccttct gcttgcaaa gtttcctggg ctggaccatt tcaacagaga ggcttatttg 240
actttatgct agaagatgag gcttctggga taggcccaga agttcctgat gaccgcgact 300
tcgagccctc cctaggccca gtgtgccct tccgctgtca atgccatctt cgagtgggtc 360
agtgttctga tttgggtctg gacaaagtgc caaaggatct tccccctgac acaactc 417

<210> 20347
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-D11

<400> 20347

caataatgtt catagcaact ttattcataa taataaccaa aaaatcagaa acaacccaat 60
gtccattggg gataaacaca tggataaaca acgtatccat aaatgaagta caggtggtaa 120
aaagaagcaa agtattgata tatgcaacaa atgaataagc tcaaaaacat tatgctaagc 180
aaaagaagcc atacatatca ttttaattttt aaaaattgta tataacagac aaatctcatc 240
tacagtgaca gaaaacagat caatgtcacc ggccgctgga actcctaggg agtactcact 300
gcaaaggagc ctttctggag tgatgaagat gttctctctc gattgtgggtg gtcgtggcat 360
gggtacagaa cacttgtcaa aaggcatgga attactcaag atgggagcat ttttact 417

<210> 20348

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-D9

<400> 20348

gtgtgctggg ctttgaggga agggggccga gaccgggcct tacttctgta gcgatactgt 60
gaggcatcgg aaggccagcc tgttgtgtcc gttttgaagg tcggtgggct agactggctg 120
gccttctagg ggtgtggaga cttcccaact ctgcccttgt gctttcctgg aatccccaat 180
atgcccgga cccggtttac tcctttgctg cgagcccttc tctcccgctc agagttgctc 240
cgagccatc tgctcagtc tagcgattcc tgtggggcctt gggacgcgcg gttcaagcac 300
cccgaccat atggatgcag caccatggg ttctcgctcc aatgcttctt tcctccttgg 360
ggcgtaactc ataccctggg caccctttc cac 393

<210> 20349

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-E11

<400> 20349

gggagggcct gggaggcctc catggagtgg gctacagtgt gggaggggag agcgaccata 60
agggcgcctt cccagtgagc cttgccaac cgccctgttt aaaagttcac cattccacac 120

tccctatccc cctctgtgcc tcagtttccc tgtggaacgt ataccatgga acatactatt 180
 aacctgtcac tcaccttccct tattgtttgt tccccacgtg gaggaatggt gtctgacgtt 240
 agctcgcttg cttgtttgtt tgtctgtctg tacctctgct gggccctgtg cttggagcat 300
 tgcctgcctc agaggtgcat acaatgatga atgcctgaac agctgaaggc tctcgatgga 360
 cgat 364

<210> 20350
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-E12
 <400> 20350

ggtggctatc ctgctgaagc ttggaacttc tggacaagaa aaggcctggt ttctgggtggc 60
 ctctatgaat cccatgtagg gtgcagaccg tactccatcc ctccctgtga gcaccacgtc 120
 aacggctccc ggcccccatg cacggcggag ggagataccc ccaagtgtag caagatctgt 180
 gagcctggct acagcccgac ctacaaacag gacaagcact acggatacaa ttcttacagc 240
 gtctccaata gcgagaagga catcatggcc gagatctaca aaaacggccc cgtggaggga 300
 gctctctgtg agtattcgga cttactgctc tacaagtcac gagtgtacca acacgtcacc 360
 tgacagatga tgggtggcca tgccatgcgc atcctgggct ggggagcgga g 411

<210> 20351
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-E9
 <400> 20351

ccagtccccga aggcaactact ggccagtcct acaaccagta ttctcagaga tgccatcaga 60
 gaacaaacac taatgttaat tgcccaattg agtgcttaat gccttttagat gtacaggctg 120
 acagagaaga ttcccagag taaatcatct ttccaatcca gaggaacaag catgtctctc 180
 tgccaagatc catctaaact ggagtgatgt tagcagaccc agcttagagt tcttctttct 240
 ttcttaagcc ctttgctctg gaggaagttc tccagcttca gctcaactca cagcttatcc 300

aagcatcacc ctgggagttt cctgagggtt ttctcataaa tgatggctgc acattgcctg 360
 ttctgcttcg aagtattcaa taccgctcag tattttaaat gaagtgattc taagattt 418

<210> 20352
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-F10
 <400> 20352

cgctttgctt caggtctggg ctatgttcag aacctaagca ggctgtgaga ggtagaggag 60
 gcagtattac atgttaggcc cagaacacca tgggaaaagg tttatgtcgt gtatcttact 120
 gccctgcta gctgcctgtg ggccacgctg acttctgatg ttcacattag ctcgtagctg 180
 aacctgttg ctgaatgcca tccccgatct cgctgcaact attatatacg cgatgctatg 240
 ccttgcatg cctgaggtaa g 261

<210> 20353
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-F12
 <400> 20353

cggcgttggt ctggattccc gtcgtaactt aaagggaaac tttcacaatg tccggagccc 60
 ttgatgtcct gcaaatgaag gaggaggatg tccttaagtt ccttgcagca ggaacccact 120
 taggtggcac caatcttgac ttccagatgg aacagtacat ctataaaagg aaaagtgatg 180
 gcatctatat cataaatctc aagaggacct gggagaagct tctgctggca gctcgtgcaa 240
 ttgttgccat tgaaaaccct gctgatgtca gtgttatatc ctccaggaat actggccaga 300
 gggctgtgct gaagtttgct gctgccactg gagccactcc aattgctggc cgcttcactc 360
 ctggaacctt cactaaccag atccaggcag ccttccggga gccacggctt cttgt 415

<210> 20354
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-G10

<400> 20354

atgacaagaa aacaagggaa agagttaacc tgtcacatag caggttaact ttttcagggt 60
ttgcagttag aggtattcga ccattcactg gctgagccag atcacgggaa cttgagagct 120
tttactgtga ttcttcaatg taaaaaataa acaacaatgt caaactgtgt ttatatgatt 180
tgtataaagc ctttttaaga ttactattta aataaacatt ataccagag 229

<210> 20355

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-G11

<400> 20355

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gacaatgatg tcaactgttg gagccccag ggcaggattc atcaaattga atatgcaatg 120
gaagctgtta aacaaggttc agccacagtt ggtctgaaat caaaaactca tgcagttttg 180
gttgcaattga aaagggcgca atcagagctt gcagctcatc ataaaaaaat tctccatgtt 240
gacaaccata ttggtatctc aattgcgggg cttactgctg atgctagact ggtatgtaat 300
tttatgcgtc aggagtgttt ggattccaga tttgtattcg atagaccact gcctgtgtct 360
cgtctt 366

<210> 20356

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-G9

<400> 20356

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cagccagaat ggggtgtgaag gcgtctcaaa caggctttgt ggtcctggtg ctgctccagt 120
gctgctctgc atacaaactg gtctgctact acaccagctg gtcccagtac cggaaggcg 180
atgggagctg cttcccatgat gcccttgacc gattcctctg taccacatc atctacagct 240

ttgccaatat aagcaacgat cacatcgaca cctgagagtg gaatgatgtg acgctctacg 300
 gcatgctcaa cacactcaag aacaggaacc ccaacctgaa gactctcttg tctgtcggag 360
 gatggaactt tgggtctc 378

<210> 20357
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-H10
 <400> 20357

gcactccacg cgtctcatca aaatactaca ttagatagtt cgaattttca ctacacgttt 60
 ttagtatcca taggggtaga gagtgaactt aaacagggcg aaacagcatc aactcataaa 120
 ttgaaaataa aaaacacaca aagccaaatc aacactcaaa aataacctta ttgatgacca 180
 ggaaagctag atgccataca tg 202

<210> 20358
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-056-Q1-K1-H12
 <400> 20358

gaaacattta tggcctcaag atactatata tttaaagcac cccaatgtct ctctttgtgt 60
 ttttttactt ccctttcttc ttccttatat aacatgaaga acattgtatt aatctgattt 120
 ttaaagatct ttttgtatgt tacgtgttaa gggcttggtt ggtatccac tgaaatgttc 180
 tgtgttgcag accagagtct gtttatgtca gggggatggg gccattgcat ccttagccat 240
 tgtcacaaaa tatgtggagt agtaacttaa tatgtaaagt tgtaacatac atacatttaa 300
 aatggaaatg cagaaagctg tgaaatgtct tgtgtctcat gttctctgta tttatgcagc 360
 tgatttgtct gtctgtaact gaagtgtggg tccaaggact gctaactact ttgcat 416

<210> 20359
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-B9

<400> 20359

gcctctatatt gataagcgat ttgaaattat taatgcaatt tatgaaccta cggaagaaga 60
atgtgaatgg aaaccagatg aagaagatga gatttcggag gaattgaaag aaaaggccaa 120
gattgaagat gagaaaaagg atgaagaaaa agaagacccc aaaggaattc ctgaattttg 180
gttaactgtt tttaagaatg ttgacttgct cagtgatatg gttcaggaac acgatgaacc 240
tattctgaag cacttgaaag atattaaagt gaagttctca gatgctggcc agcctatgag 300
ttttgtctta gaatttcact ttgaacccaa tgaatatattt acaaataaag tgctgacaaa 360
gacatacagg atgaggtcag aaccagatga ttctgatccc ttttcttttg atgga 415

<210> 20360

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-H9

<400> 20360

gcaaaataact acattgctag ttgaatatcc ctaacgtttt tgtcccatag gaaagaatga 60
attaacacagg ccaaacagat caactttaaa ttgaaaaaaa aaaaaacaaa aacaaacaaa 120
caaaaaaaaa ccttattgtt gccaggaaag tagatgcata aatgccactc tgggtatcctg 180
gccatcttaa agggcaattc ttcttgatat ggaggtagta agtataacat attcaaatta 240
tctaaacgat aggaatcata atattttatg ctttttctag cagaattatt ggtaaaacaa 300
gaatacttct aaacatacct tcattccacg tgtagaaaag caatattcgg gccaggcacg 360
gtgggtcaca cctgtaatcc cagcactttg gaaagctgag gcgggtggat c 411

<210> 20361

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-H10

<400> 20361

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gagggggggc tggactacct ctgaaacccg aggtcatcc aggggcacag tatacttgcc 120
 atatgagcct accgggcagg gctaattggac gccgtcgacg actggcgcat ggacatcatg 180
 ccgatcggcg aggtcgtcaa cgctgtctac cagagcgact gcttcgtcac aatcgtcata 240
 gtcgccgacc acaatgcctt cgacattctc caggtaagg agctcaagaa cgcccgactt 300
 gtcattgcttg 310

<210> 20362
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-H12
 <400> 20362

accaccacca ccaccacggc catcgccgcg acgacgacga agacgaccgc agaggcccg 60
 ctcccccggt ctacggcggc tacggccagc caccgtcacc cgaccgtac ggccgcgcgc 120
 ccgtcgaccc cgatccgtac ggtcgacctc cgccccagtc cgcgtacggg ggggccgggg 180
 acgcctacgg ccacagcggc caaggctacg cgcccccgcc ggcctacggc gccggggggc 240
 ggtacggcaa cgtcgtccac gtcgcgcacg aggtcggcga cgagaggcct tactacggcg 300
 gcggcgggcg cggtcttggg ggcgctacg gagggcgttg ctccgagtac ggccacgagg 360
 gccgaccgca ccacggcggc ggcgatccc agtacggcca cgagacacgc cc 412

<210> 20363
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-H3
 <400> 20363

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 gcttcatatg gtcagagtgc accagcagct ccaggatatc ctcagcaagg cacgcagcaa 120
 ggtggctatg cacagtaccc gcagacccaa ccagcatatg gtgatcaagc agtcaagcc 180
 aatgcgaact atgggtacca gggagctcca gcagatccca actacggaag tgcgtaccca 240
 cagcagccag ggtatggtec tcctggtcag gcaactggtc aggtcgggta tgcattctct 300

gcgccagcgg ccagccagcc tgtgtatggc caggctggat ataccagcc acctacaaat 360
 cctccaagtt atgatcagtc tgcagcacca gcggcgactc agagcgggta tgcttcgccc 420
 cctgcaaatt cacaac 436

<210> 20364
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-H5
 <400> 20364

gctcatcctt ggggatagca gtcttggcct ttaccttgat cccgttcagg tcgtgagagc 60
 tgtgccgcat caccttcgc actgcttgct gcgaatcaaa ggtgacgaaa ccgaaccccc 120
 tcgaccggct cgtctcgctg tcataaatca ccacgacgtc cgttaccgag ccaaactct 180
 caaagtaagc ccggaactac ttctcggaga tattatcccg caaaccggca atgaatacct 240
 catatgaatc atagctcaca ctgtcgtcac tgtcagcagt accattacca gcggcgact 300
 gattgtcttg gataccctga ccccgggctt gctcagcctg ctgaggctgc gagtgc 356

<210> 20365
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-H7
 <400> 20365

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 tgggctgagg cattgcgtga gatctcaggg cgtttggctg aaatgcctgc tgatagtgg 120
 taccagctt acttggctgc acgtttggca tccttttatg aacgtgctgg taaggtaaaa 180
 tgtctgggaa gtccagacag gaatggcagt gtcacaattg ttggagccgt ctctcctcct 240
 ggtggtgatt ttccagacc tggtaccttc gcaaccctca gtattgttca tgtcttctgg 300
 ggtttagata aaaagctcgc tcaaaggaag catttcccat ctgtgaattg gctcattttc 360
 tattctaaat actgcaaagc gccttgagtc tctttacgag 400

<210> 20366

<211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H8

 <400> 20366

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 aggagctgaa atggctgtgc gttcacttga gcgtcttctg cagtatggcg agcagaatat 120
 aagacgagca gtgcctcttg ctcttggat actctgcata tctaattcca aggtgaatgt 180
 tatggacaca ctgttttagat tgagtcatga tgccgatgcc tatgtgtcaa tggctgcaat 240
 tatctcattg ggtatgattg gtgctggcac atacaatgcc agaatactg ccatgcttcg 300
 caatctttca agttattact acta 324

<210> 20367
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H9

 <400> 20367

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 ggggataagc cgcctcagat acgtcttgca caccctgcta ccctctcaa attcaaaact 120
 aggaaacggc gcagggaaac agcaggcagc tgtttatggg tcattggaga tcatgtagac 180
 gcatgggtca ataattgctg ttggcgagag ggagttatct ctcagaatta tgagactgac 240
 gagacgaaat atgttgatca tttttcagtt ggaggtgggt gtgaatcctt agtagttgat 300
 gcttggagtc ttctccatc acgtgtttgg aaagatgttc aatggataga gtgggtcccg 360
 gcaagagaaa ggaaatccaa gtctaataag ggcgattcac ctcttgagaa acgccaaaag 420
 a 421

<210> 20368
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-056-Q1-K1

<400> 20368

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ggcggcggcg tcacgcggtt caaggccggc gacacggctcg gcgtgggcta ctctgtgggg 120

tcctgccgct cctgcgacag ctgcggcaag ggggacgaca actactgcgc ggngatcgtg 180

ctcaccttca acggcgctga ccacgcgcac ggccggcgcgc ccaccagggg gggattctcc 240

gacgtcctgg tcgcgagcga gcactacgtg gtccgcgtnc ccgac 285

<210> 20369

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-A10

<400> 20369

gacgcgcaga agggaaacaga gaacggcctc ttcagcagga gctactaccg agccatgacc 60

tgggtgccatt aacgaagcac atgtatcaca agccgattac acacgggacg gccacggaac 120

actgttgatc gatgctgcat tctcactgaa atacgtagtg gatcttggat gagtaagaaa 180

gtcatgtgac gctcagaatg aggattacac ggaccttgct accggagata ccaacgacat 240

cgtgtgcctg tgcttcacat gcctgcacag cgaagcaatg ataggcatca acagggccca 300

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<210> 20370

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-A11

<400> 20370

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ccactacttc cttaaaatca ttcacctttt tgatgaatat tccaaatggt tacttgatgg 120

agcacacaat gtgggctcta aaccaattca acaaatccgc atattccttt tcgagaaagc 180

tttagcactt attggcaata aaacccttat tcgccaaggc cttcatgggc acctttgaaa 240

caacccatct tt

252

<210> 20371

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-A9

<400> 20371

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gtcgctggcc ttcgctgggg actcgctggc gcggaaccac atgcagtcgc tgcctctgct 180
cctgtcccag gtggcgtatc ccaaggacct gtcggcgaac ccgtcggacc agaacaaggt 240
gtaccactac cgggcgtaca acttcacat cagcatgttc tggtcgccgt tcctggtgcg 300
cgccccggag cccgaccacg acggccccgc gcacacgggc cactggagcc tctacctgga 360
cgagccccgac gacaagtggg tgtcccagat gccccgcttc gactacgtgc tgggtgcggc 420

<210> 20372

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-B10

<400> 20372

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atgaggggtc aagtacatcc ccagacgcgg ccctctggac aagtggcggg cactgcactc 120
ctgagggctt ccaaagtgct gtccacatga taatactcac caatgaattc tactacctgt 180
ccactgtacc attataaatg aagaacagat aagaagatga gttagataac caaatgagag 240
aaaggtggag atattgaaga ttaccggggg ggcgatttat aggacccaac gctacttaca 300
catacttgct acgctagaga acatatacca gggtagcgaa ctaaagacta ctggccgggg 360
gttacaacga gaag 374

<210> 20373

<211> 419

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-056-Q1-K1-B12

 <400> 20373

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 ctgccaaccg tgggcgagct ctgggtgtgc gggcgggctg gcgcggcgct ccgctgtgtc 120
 agcgtgttat gatgccgtcc cgtaccaacc tggctactgg aatccccagt agtaaagtga 180
 aatattcaag gctctccagc acagacgatg gctacattga ccttcagttt aagaaaaccc 240
 ctcttaagat cccttataag gccatcgcac ttgccactgt gctgtttttg attggcgcct 300
 ttctcattat tataggctcc ctctgctgt caggctacat cagcaaaggg ggggcagacc 360
 gggccggtcc agtgctgatc attggcattc tgggtgttcc acccgattt taccacctg 419

<210> 20374
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-G9

 <400> 20374

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 gagccggtaa ctcgtaacgt ggatcccgat ctacatgaca actatcagta gctgatcgcc 180
 aaggaccact agctgatcta cgtgcaacgg ctcggaagg ttctacaatg acgactacaa 240
 gcacgcttac cagatttccg tgcttaaagt caatctgcac ctgcgcgcc agctccatat 300
 gatagacca tgatccgatc acggtataac taagctcttc gacc 344

<210> 20375
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-F4

 <400> 20375

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 aggacgcctg acaacacaaa gagattatag gtcacagcaa tctgaaaatg acgtgcagtt 240
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 tggcagaaat gataactctc atatatctga tgaagattca gaggatcttt gcaaagaagt 360
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 aagcc 425

<210> 20376
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-F5
 <400> 20376

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 gcggcgggcg tcttggcagc ggcgctgctg ctgctggcgg cgggggccgg gacggcgctg 180
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 ggcagcgagg cgtcgccctc cgcggcgctgc tgcagcggng tgcgctcgct caacagccgc 300
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<210> 20377
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-F6
 <400> 20377

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cgcttcggcg gccatgggag gtctgtctccc ttgaagctgc ctcttggtc catgggctgg 180
 ccttaccttg gcgagaccct ccagctttac tcccaggacc ccagcgtctt cttegtttcc 240
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<210> 20378
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-F7
 <400> 20378

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 tgggcgcccc attcaccgac ctgttctttt cgcacaaact cttcaacgac cccaccatga 120
 gcgt 124

<210> 20379
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-F9
 <400> 20379

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 ctttgagatg tatatgctgg aggagcaagg acatccaagt agaggctggg aatcaagcac 120
 taccggagat agctgagatc ctagctaaaa tcaagctgac actgcatcca tggacgttga 180
 gcttaagagg tggatcatcaa gaacgcatac gatatggaca cttgcccagt taaaaaagct 240
 gaagattaca gaaatagtct gcatcaagaa gcacatgcaa aagctcaagc attacacttt 300
 gaacatgaat taccttgaag aagaatgcct atcatgcttc acaaaggcga taagatgctg 360
 aacttgtgaa gatacaagag gcatcttccc agaggaaaga atct 404

<210> 20380
 <211> 153
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G1
 <400> 20380
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 ggacaagtag atcgaagggtt ggctgtgacg atgacgtgtt ttagtgcgct ggatctgatt 120
 cttgagccct gcatgagcgt gaccatcgtg tag 153

<210> 20381
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G10
 <400> 20381
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 cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
 cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240
 cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
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 cggcggcggc ggcgggtacg gtggtg 386

<210> 20382
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-053-Q1-K1-G11
 <400> 20382
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 gccgggaggg gtttcgacgt gcatgtttgc gtaatgattc ccagagtgat gtgttgactt 180
 ctgaagcgat actaatggtc gcttggtatg taattccagt gtccatctta attacttctg 240

ttggcagcat acttgtgttg agtttaaaga gagtgaagct atctgacccc tatgcgaaag 300
ctgtattgat catcggtatt gcttgtattc tggaattact ggcggaacca ttatacatta 360
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<210> 20383

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G2

<400> 20383

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tctccagtct ccaccgatgg cgatcaagaa catgacggtg gcggcgacga cgcggtcgct 120
ggacgcggac atgacggtgg acgagttcaa ggagtggctg cggcggttcg acacggacca 180
ggacggggcg atcagccgag acgagctgag gcgcggcctg cgtgccatcc gctcccgggt 240
cacgggggtg aggagcaggc agggcatcag ttacgccgac gctgacggcg acggctacat 300
cgacgacagc gaggtcgatg gcctcatcga gttcgcgag aagaacctcg gcctcaagat 360
cgtcgcttac tgatctcaca tggggcgagg gcgcggggg tcgggggggtg ggacgcac 418

<210> 20384

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-053-Q1-K1-G3

<400> 20384

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tggccgctcg ctctcctcc tccagccgc agctggctcg ggcggcgagg gtcttgagcag 120
cggcgctgct gctgctggcg gcggggggcg ggacggcgct ggcggcggtg agctgcggcg 180
aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240
ccggggcggt ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgctg gcggcgagac 300
ggcaggccac ctgcaactgc ctcaagagca tgacggggcg gctcggcggc ggcgtcagca 360
tggccaacgc cgncaacatc cccggcaagt gcggcgctct cgtcggcggt ccca 414

<210> 20385
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-G4

 <400> 20385

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tgtagcctca tacaaagata gtcgagagct tcctactcct aggacagaag gggaaatctt  120
gtcatcacca aatttgaagg cattctcggt tggatgatctc agaactgcgt cgaggaactt  180
cagatcagac agtcttcttg gggaaggagg atttggctat gtgttcaaag gctggattga  240
tgagcaaact cttgcccctt caaagccagg aagcggatat gttgttgcca tcaagaagct  300
aaaaccagaa ggttttcagg gccacaagga gtggctgaca gagggtgact accttgggcc  360
aacttcacca ccagaatctt gtcaaactca ttggttattg cacagatggt gatcaccgac  420
ttctggtgta tgag                                                         434
  
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<210> 20386
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-G5

 <400> 20386

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aggaccccac cgtgagcgtg gccatcggtg agcagtcctg gtccccgggc ggcgggcgct  180
ggctgggagg gcagctgttc tcggccatgg tggatgcgag gccgggcgac ctgttcctgg  240
acgagctggg cgtgggctac gacgaggccg aggactacgt ggtgggtcaag cacgcggcgc  300
tgttcacgtc caccgtgatg agccggctcc tggcgcggcc caacgtgaag ctgttcaacg  360
ccgtggcggt ggaggacctg atcgtgcggc gggg                                     394
  
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<210> 20387
 <211> 319

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-G6

 <400> 20387

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 atctcagaac tgcgtcgagg aacttcagat cagacagtct tcttggggaa ggaggatttg 180
 gctatgtgtt caaaggctgg attgatgagc aaactcttgc cccttcaaag ccaggaagcg 240
 gtatggttgt tgccatcaag aagctaaaac cagaagggtt tcatggccac aaggagtggg 300
 tgacagatga tgactacct 319

<210> 20388
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-G7

 <400> 20388

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 aacgtattga tctgataaat ttctctgcat gccaatctgc taaccagct ttgcaaagac 120
 actatgggat cttggaggcc ttagcttttag gcgaagatga gatgcctgat ataaaggacg 180
 agaccctgcc tgacgaagaa ggcttgtcta agccaggggt agccaatgct attgaggaat 240
 tcaagacttc agtctatggt gaaaattatg accaagagga ggcagaagcg gcagcaggga 300
 aaagcttccg tggtaatgct tcaaaaaagc ggaaggaggt cactgatgca gctgcgcaga 360
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<210> 20389
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-F3

 <400> 20389

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gagaggtgat gcggagcagc aagcgggacc tgacgaatgc tacgcgaggg atcgagaggg 180
acattgcgtc attacagcag gaggagaaga aactcgttgc tgaaattaaa aggacagcaa 240
aaactggcaa tgaggcagca acgaaaattc tagcccgta gctgatcagg ttaaggcagc 300
agatttctaa nttgcaaggt agccgagctc agattcgggg gattgcgaca catactcagg 360
caatgcatgc caacact 377

<210> 20390

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G8

<400> 20390

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ctgctaacc agcttcacgg agacactatg ggatctcgaa tgccttagct ttacgctatg 180
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aggaggcaga tgctgccatc aagaaagcat tcccagctag tgcttaaggc caaccgaaag 360
aggtgactga tgcag 375

<210> 20391

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-053-Q1-K1-D6

<400> 20391

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caccgacca aagccagtgc cagtgccagt gccaatcct gttccagtga ccgcaccacc 180

ggccgccatt gtcaacggca aggaatcccc tgcaatgggc agctcggagt tctaccactt 240
ccaccacgcc gaagacctgt tcgaccaccg cttcagcacc aactcactcg tcgaggggctt 300
ctccgncagc ctggacgctg ccttccacgg ccccgcgaaa aaccgccgcg gtgggcgc 357

<210> 20392
<211> 185
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-053-Q1-K1-D7
<400> 20392

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gctgatatcg gttagatgct ggtatagagg aaatctgagt tttggcagca cgacctatta 120
ttgcatgggtg cttctgcttc atgctgttcg gtccattgta tcgaatatgc cgtagagatg 180
gcact 185

<210> 20393
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-053-Q1-K1-E1
<400> 20393

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gtggagcatc atcaccggc ccatgttcca gagcatgctg agccaccgcg gcgacagcgg 120
gtgccagggc gccttctaca cctacgacgc cttcatcgag gccgccagca agttccccgg 180
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gacgtccac gaaaccaccg gtggatgggc gactgctccg gatggaccgt ttgcctgggg 300
atactgccgg gtgaaggaac agaaacagac ggaccacccc tactatggac gaggacccat 360
acagctaact cattagtaca acta 384

<210> 20394
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E11

<400> 20394

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gtttaaccgc cctggctggg tcctcttctc catccacctc acgctcttcc agaacgcctt 180
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cctcgagtgt tctgttcata cagtcagtgc agcataacga gcagaggctg acttgcttac 300
ctcttttctc ttggctggg tcgtcctggc gcagctcacc ccagacctga agaaatgcta 360
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ctgca 425

<210> 20395

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E2

<400> 20395

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aagacagact acagggccag gataaggctg attaaccaag acaaaaacaa gtacaacaca 180
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gctagtatag cgggtgatat gggtcttgct tctgcctact cgcagtgtt gccacgatat 300
ggctctgaag ttggtctgac caactatgca cctactgcac tggccttctg ttggctcgcc 360
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<210> 20396

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E3

<400> 20396

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atggttccca ctaagcccat ggtggtggag accttttctc agtatcctcc tcttggtcga 180

tttgctgtcc gtgacatgag gcaaacggtg gctgtcggag tcatcaagag tgtggagaag 240

aaggacccaa ctggagccaa ggtgacgaag gctgctgcc aagaagaatg atctatctgg 300

ctggtgacga aggctgctgc caagaagaaa tgatctatct ggctggtgct gtgcttgctt 360

gttggttacc tcgtggaagc ttaaaatatc tcgtcttggt gacatccttg cagttgtcgc 420

gtgaacaagt aatctatgat ggcaat 446

<210> 20397

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E4

<400> 20397

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gcagaagagg cactgaagac cttgaaatca accactgacc cacaaattaa gaagtatctg 120

agacctgtaa gatgcaatgg ctgattccct tccacgttct gagctccgca accaaatgag 180

ctttagctca tttcacggtt acagatgtca ttgatttagc agaagtgcac caccctttct 240

gtgagtatgg ttgacatctc acctcgagca catgatgtgt gccaaacaca tgtcttgctt 300

tggaaatcct ggctttgaag gtggtaacat agagagcgga catggtgctt tatgcattct 360

tttgaccatc atacaagtat agatgttatg tcttggttag gatagtggca tagttggctg 420

taaacaagca ggagagtaga tgcggatcta aaattc 456

<210> 20398

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-053-Q1-K1-E5

<400> 20398

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ttctccatgg gctgcatgtc gcagtccgcc gtgtccgtcg ccgaccccg gacagaagaag 180

gcgcaggggg acccgctctc cactgccgcc gccacggtgg ctcgggcagc agcagcaggt 240

tcatcggaag aaggcgccgg cgaggccatg acgaaggaga agggcgtggc gtcgtcggcg 300

gcggcgacgc cggggctcgt ggcgggccggn gtgtcgaggc tgatgaaggg gatccccgagc 360

ctgtcgcaga tgttcgcggg ggaag 385

<210> 20399

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E6

<400> 20399

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gtagcgtggc gaaggggtca tcaccaccag ccttcagtt ccagtgcagg gcgtcgactt 180

tcgcggcgga caccagcctt cggctcgagc tggacgagaa ccccgaggcg atcatctcgg 240

gggcgtggcc cgggaactgc tgactcctca gctacgacta ccttcgcgcc tacctcgagt 300

cgcatgagac ggcggcctag gcagacggtc agcagcgcg cgtggcgctt ctgagcgaga 360

ccatgtccac acccgctgctg gtggccacag cagaccagac cctg 404

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<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E7

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cacacaacct agcgggtgct gaccttggtg ggggagcgag gagtgcacac aagggtgaga 120

accatgagtg atacagggta cactgtgcac gtcactaacc tatagagcag agtatgttac 180
 agggatctgt atgagtcctt ttcgtgctat ggccctattg aacatgtata acttatcaca 240
 tcatgagaat acggagctac tgcttatggg acatatactg agcgctttgc cttgtaaact 300
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<210> 20401
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-E8

<400> 20401

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 accaaacagt attcttgggtt tgtcacatgg atttctcctt ggacatttgc aatctctggg 180
 ttttgatttc cctaaaagca tcagtgtgat tgctgtatgc cccaaggga tgggcccatc 240
 agtcagaaga ctttatgttc aaggcaaaga gatcaatggg gctggtatca atgctagctt 300
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<210> 20402
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-E9

<400> 20402

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 tatctaagct aaccgaagtc aagaggacc aagtttatga ccgcctacag cattcatgca 240
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 gtccgaggag atct 314

<210> 20403
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F10

<400> 20403

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agcctctgca gcaggcggcg ctctatgcga atggggggtgc tgtggaccct ggaacgtctt  180
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ctgctgtgcc cctgccagag caagcactga attacgatga tcaaagtgga aaccttccac  300
cgctctcttg ggaggctcag ccagcgtcaa acaatgaatt gccaaatggc caattgggaa  360
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<210> 20404
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F12

<400> 20404

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gtttctgtct ggtgcactgt aatgccgact acacactgtt tggatcttgt gtacgcccac  180
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<210> 20405
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-D5

<400> 20405

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ccagctacgt gacgtacgt actctgcatg actgagccgg cgccacatcg gcatgcagta 180
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atcgccatt tgaactgcc agtccattat ttcattgaaa aagttgttgg tgcntaata 360
aagttgtacc ttagttatct tc 382

<210> 20406
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F2

<400> 20406

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gtaccgagct ccgccttggg ctgccggggg ccggttcgcc ggaccgccgt gttgtggctg 180
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aggacgacaa gaaggttgca gcgacgccgc agccggtcgc aaaagctcag gtggtgggat 360
ggccaccaat ccgaagctac cgcaagaaca cgatgtctac caccagctg aagggcagca 420
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<210> 20407
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B9

<400> 20407

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gtaataaggg tgcgtcagag caatcggagg cacagatatt tgtgcagatg gtagcggcat 120

ttggattgaa ggataagttc gatgaggagt tcttgagaag gctgtttggt gctaattggac 180

ggaagagggg gcttgctagg attgcatgcg tgcttggatt tgaggaaagc cttggagata 240

ttgttgagga actaataaag tcaggaatg ctatagaggc tatatatggt gcccatgaag 300

ctgatttgct tgggaaattt ccacctgtgc ctctcttcaa atcttatctg cagaattcca 360

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<210> 20408

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C11

<400> 20408

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cgctcccgcg gcgcccgagc aaggaggctg cgtacaagca gctgcggtcg cacatcatca 120

tcatggcctc ctgcgccgcc gtcacccgcg ccacccctta catcctccat ttcctcgccc 180

gcgacggcga catccaggaa ctcaagctcg atctgtaggc ccgtccgttg cttccccacc 240

tccagagggtg ctacaaaggc aaccgttagt tcgaggccac tgcaaggtag tatggagtta 300

gtggctacag tgcttgcctta agtttctttg ttgttccaag tttagtgaac aaactgacaa 360

tggtgtagca actgggttgt gctgcgacca gtatttcggt tttgccta 408

<210> 20409

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C12

<400> 20409

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gcacctacgg cgaggtcctc gagtccaaga tcattcctcga tcgggagacg cagaggtccc 180
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 tgaacggcac ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 300
 gccgtggagg ccgcggcggc ggccgatacg gtggcgagcg tggaggcggc ggctacggcg 360
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<210> 20410

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C2

<400> 20410

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 gagactgaca tggccaagct tgaggaagct gttaggagtg tccagatgga agggctgctc 120
 tggggcgcat ccaagcttgt ccagtcgga tatggtatca agaagctgca aatcatgatg 180
 accatagtcg acgatcttgt ctctgtcgac actctcattg aggactatct gtgcgctgag 240
 ccagttaacg agtacgtcca gagctgcgac atcgttgcct tcaacaagat ctaggcgtga 300
 ctttcgatca gtccttcccc tggggtgctg gcgatgggtg tggctgggca atgcaccagc 360
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<210> 20411

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C3

<400> 20411

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 acgaacaggc gcacactgtc acacttacgt gtgcgggtta gtgttttagc acatcattac 180
 tagtgcgata tgctcagtat gattggtgtc gtagtacaat attttggtgc atgatgtatt 240
 ataacacaca ctaatttgga ggttcactag gtgctagata agcaacgaca ctctgcatg 300

tatttgatga cgcttgaact caactgt

327

<210> 20412

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C5

<400> 20412

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cctggatgaa gaggtagaat caaaggagat gcagaagcag caaaagcagg atcataatag 180

catgagcctc aggaagctta gagccaagca caagaaatat ctcattgctg caaaggagga 240

ggaggtcact gaagggaaga ggcttcctct cgaggagggtg gatgagaatg cctgcatgga 300

ccactgaaca gaacaagtag gcgaaatttt gtgtggatgg cgtctgccac aaaaggattg 360

aatcgaggag tgtgctcttg gtgtgaagtg ataactaggc ttacgcatgt tcat 414

<210> 20413

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C6

<400> 20413

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agcgccttct tcgggagcga agctgcagac gctgcaggac gcgctgtgca acaccgcac 120

cgactgctac ggcgacctcc tccgcgaggg cgccgaggac tacctcaact ccatcgacgc 180

cgagaagtac gcctacagca cgcagcaggt tcaggactgc atcgtcgtcg cgctcacttt 240

caaggtcgac gtcg 254

<210> 20414

<211> 403

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3062-053-Q1-K1-C7

<400> 20414

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ctattggtcc tcctatggga aatccatgga tctacatgta ccctaaaggc ctaaaggatc 180
tccttatgat catgaagaac aaatacggaa acccgccat ctatatcacc gagaacggaa 240
tcggggacgt tgacacaaag gataatcctc tatccatgca agatgcgttg gacgactaca 300
agaggctaga ttacctncag cgccacatct cagttatcaa agaatacaata gacttggggg 360
cggacgtgcg cggccacttc acatggtctc tgttggacaa ctt 403

<210> 20415

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C8

<400> 20415

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cacagccctg cctgggtcaaa gttgtggcca cgggacaggg gccccaagtc ccagcctacc 180
tcttacacag gggccagctg cggggtgggg cgggaagtga ggttcagctc cagggactta 240
gtgcctcagt ttctccacct gcaaaatgga gacgctaata atgcctccca tagggcgggg 300
tgagggtgta tgagattctt caggagagag ttcaaagggt gctggtggcc atgtcgtaag 360
tactgagaat gcctggc 377

<210> 20416

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-C9

<400> 20416

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agaagggacc taaggttggtt accttggcac tccttaacca ggcacataac ctacacagat 180
atggaaaact atatcttcag atgtgcccac agttgagagt aagactcgta tatggcacca 240
gcttatctgc tgcagtagtt gagaatagtg cccctcaggg cacatatcaa gttgttctcg 300
caggaatat ttccaaagtt gctcgtgctg ttgccgca 338

<210> 20417
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D1

<400> 20417

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gatggaagct tcaaagcccg gaaggaaagg ggtaatgggt atcgatgccg aagtatttga 120
ggtagcccc aacttccatc ttgtggagat aaagaagacg aatggcgaca ctctagagta 180
tcaaaaggct ctgaaccaag aaatgaggcc cgcactcaag gaaatagtgt gggcttggca 240
aggtgagcaa tcaaagcaaa agcaggaaca acagtcgtgt taaaaactta tgagctagt 300
caatgttttt agccaatttc caatctttcg tgtatttgtg tagtttttac tcttttatta 360
tccatttttg ttttcccggtg taataccaac aaaaacttgt gtagttgtgt tattttctg 419

<210> 20418
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D10

<400> 20418

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aacaagcata aagatatcaa gcaagcacat gcgaggcttt cacacatata tgctgaagca 180
aaaaacgata ccccoctgaa tttgtattta atcttgggag tggagccatc ctgctcttca 240
gcagatatta agaaggcata ccggaagct gcattgagac atcaccaga caaggctgct 300
caattattag taaggaacga gaatgctgaa gatggatttt ggagggatgt tatcaaggaa 360

gtctatgcag atgcggatca tctgttcaaa acaattgggg aggcataataa tgttctt 417

<210> 20419
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D11

<400> 20419

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ttaaacaagc ataaacatat catagcaagc acatgcgaag ctttcacaca tacatgctga 180
agcacaaaac gatacccac tgaatttgta ttaaattctt gaagtggagc catgctgcta 240
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tgatcaatta tcagtaatga acgagaattc tgaagatgga taccggaggg atgatataa 360
tgaagtctat tcagatgctg atcatctgtt caaaacaatt gggg 404

<210> 20420
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D12

<400> 20420

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gccttcagca cctacggcga ggtcctcgag tccaagatca tcctggatcg ggagacgcag 180
atgtcccgct gcttctgggt cgtcaccttc tacacggagg atgctatgcg gaacgccatc 240
gagggcatga acggcaagga gctggactga cgcatacatca ccgtcaacga ggtccagtcc 300
c 301

<210> 20421
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D3

<400> 20421

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aagcgcaccg cgcgcgactt cggcttcggt atcgcgcaac ccgcgcccgtt tgccgaggcc 180
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tcgcgcctgc cgaacgtcgg cagcagatc ttcacgggtca tgagcgcgct tgccgtcgaa 360
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gatgcggtc 429

<210> 20422

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-D4

<400> 20422

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cgcgcgctac ttcagcttac ggatcgcgca accgactccg tttgccgagg cctgcgcgct 180
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gaccgtatcg atgaacgctg catcagacat gccaacgact cccgttatcc cctcgcgct 300
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<210> 20423

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B8

<400> 20423

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gcggggcggc gtgaagcgca tctcggggct catctacgag gagaccccgcg gctgtctcaa 240
gatcttcctg gagaacgtca tccgcgacgc cgtcacctac accgagcacg cgcgccgtaa 300
gaccgtcacc gtcattggacg tcgtctacgc ccttaagcgc cagggccgca ccctctat 358

<210> 20424

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A2

<400> 20424

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agcatggaac tgcctaggca caaagcttgc ttcaggatcg atcgatcata ccgcacgtgt 180
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tagtggagaa aacatcaaca tcacatataa acatgatggc actcagatag cttgtggaaa 420
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<210> 20425

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A3

<400> 20425

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gatggagcga atggccgtca gagatgcgac agatcatcac catggaagga gaccatctga 300
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<210> 20426
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-A4

<400> 20426

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<210> 20427
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-A6

<400> 20427

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cgatggacat ggccacctcg cacacgcact cccactccca atcacactcg cactcgtggg 120
gcgagacgcg cacgccagag tcggagatcg tggacaacga cccgttcccg gagctggact 180
cgttcccggc gttccaggac cgggcgatga tgatgacggt gcccaaggag gagcaggtgg 240
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gcatgtacag cggcctcgac atgctgccga cgnccgggga ggacttctac tcctcgtctc 360
tcgcgtctcc cagggtcaag ggg 383

<210> 20428
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-053-Q1-K1-A7

 <400> 20428

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 cccctggtgt tcgtcgtcta caggcaggcc gtcgccacca ttgtactcgt ccccgtcgtc 180
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<210> 20429
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-A8

 <400> 20429

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 gcccgccaag ggcaggaagg ggaaagccgg caaggacccc aacaagccta agagggtctc 240
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<210> 20430
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A9

<400> 20430

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gagccaccga cgaccactat gtctacaacg acttaagaac ctactgagag gtgctctaga 180
cgctgatcat actggatcgg tatacgcaaa ggtctatacg atgctgatgt gactcactat 240
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<210> 20431

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B1

<400> 20431

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aagataatag aggagcgcgc gatcgatgtc agactctggc gatcgatcatg tacgcggtcc 120
tgccgggtgcc catagaggct ggtaaatcat ggggactaag tctatgaaac gcggacgtgc 180
cgagaggaga cagttggctc catggagtgc tacatatgtg acacctaaca cagcaaggcc 240
agcatggggt ggctgtggtt cctcgcaccc ttgtggaacc agctgggctc aagctacaga 300
tcatggtgct gctaccagtg gcaatcctag accgacatca caaacatcgc gcctgtttct 360
ggct 364

<210> 20432

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B10

<400> 20432

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taactggtgc tgtccgaagt ggggtgcaca aaagcttttg gatttgatat tacagctgct 120
tgtagtgggt ttttagtcgg cttaatcaca gctactcgct ttatcaaagg cggaggtttt 180

cagaatgtct tagtagttgg tgcagatgct ctttcaaaat acgtggattg gacagacaga 240
ggcaggattg aggctgtttc atcctcctct gctgcgggat ggggtggggtc gtcaccgtgg 300
cgtcactcgt ggcgtatcgt gcagtatgga cgacaacggg gagctgtcaa gatgggttac 360
ctcaagacgg atgagttcct caagaggggc gagagcgggtg gcacgtgc 408

<210> 20433
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-053-Q1-K1-B11

<400> 20433

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cccaagctaa tgcagcatgg atttagtgat gccattgcan aagtaggttt gacaaagttt 120
gtcagtgacc tattcttgggt tggactgttc taccatctgt ataaccagat tgctacaaac 180
accttggagc gagtggctcc tctgacacat gctgtcggca atgtgttgaa acgtgttttc 240
gtcatcgggt tctcaatcat tgtttttggc aacaaaatta gcacacaaac tggaattggc 300
acgtccattg ccatagctgg tgttgctatg tactcttaca ttaaggctaa gattgaagag 360
gagaaaagga aaaagagcgc atgactgctg tgaataatat tatca 405

<210> 20434
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B12

<400> 20434

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aagaacatct tcaagctgtc ccagggggag tatgtggcag ttgaggtcct ggaaagagca 120
tacctgcagt cacccttgtt ggcacgggtc tgggtctacg ggaacagctt cgagtcgttc 180
ctcgttgccg tggctgtccc tgagaggcag gctctcgagg aatgggcagc agccaacagc 240
aaggccggcg actttgcaga gctgtgcgct gatcccaagg cgaggaccta cgttcgggat 300
cagctgaacc aaactgggaa gaaacttggg ttgagaggct tcgagatgct gaaagcagtc 360

tacctggagc cgggtgccttt cagcatcgag aaggacctcg tcaactccaac ctttaaa 417

<210> 20435

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B4

<400> 20435

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agcagcagcc ccaagcaggc agtcaaccct ggggaagagg aggtgggtgga atctggtect 120
gtgacagcga cgcccaacgc tgcttgtgga ttccaagaaa gcagctatgg cgtgggtggag 180
gtggagctcg tcttgcctga cagccccttc gcgcccccca ccaaggagga ggccctcatc 240
gctgatgctg tcaactgctgc agccgctcgg aacggtagca ccagcagcag cagccctcgc 300
catgtggccc ttttcgcacc cgcgtcttcc accaccctcg agctgcccc ctacagctcc 360
tcttgcttct ttcaggtgcc caggttttct cctgggcatg aagccattgg gctgtgatgt 420
gaggtgcaca ggacaaaaaa tggggagggg 450

<210> 20436

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-053-Q1-K1-B6

<400> 20436

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ggagcttcat ttaggaggag agaacaggca aggcttggca cgaagctcct tgtgctgacg 120
aggagatcgt tctgaacat gcacaggac gtaggtact actggatgcg tctggccgtc 180
tacatgggca ttggcgtgtg cctaggcact atctttctacc aacttggcta cagcagctac 240
agctctatcc agagtcgatg tgaagtaatc atgtacacta tcgcactcct aactttcatg 300
tctatcggag gatttccatc cttcgtagaa gacgtcaagg tgttcagaaa ggagaggctg 360
agcggnact acggcgtgtc 380

<210> 20437
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-B7

<400> 20437

cgcggtggact tcaaggagcc cgtgtgggttc aaggccggcg cgcagatctt ctcgaggggc 60
 gggctggact acctgggcaa cccaacctg gtgcacgcgc agagcatcct ggccgtgctc 120
 ggcttccagg tcatacctcat gggcctcgtc gagggcttcc gcatcaacgg cctcgacggc 180
 gtcggcgagg gcaacaacct ctaccccggc ggccagtact tcgaccgct gggcctcgcc 240
 gacgaccccg tcaccttcgc cgagctcaag gtcaaggaga tcaagaacgg ccgcctcgcc 300
 atgttctcca tgttcgggtt cttcgctcag gccatcgta ccggcaaggg gcccctcgag 360
 aacctgctcg 370

<210> 20438
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A11

<400> 20438

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 ggtctccatt ggtcgcttcg ccaggtcctg gttagacccc agctccgcca cgagccactc 120
 tagttatcgg atcccgcatc gtggaatgct tgccataggg aggaaggtag ctggaaggcg 180
 tgaagaaatg tctgcaaatt atgcgttttg accacaggat gatgatgcga ctattaaaca 240
 caggcttctg actaggacaa cgaccacat ggggtgaaccg tcactaaaga agcttcagaa 300
 gaagttcatg tcctttgcaa ctgagatcga gaaggatgca gataacataa gtgactgtga 360
 aagactgtac aaggcctttc tacatgaaat taacaccttt gagctaccta ttctgaaaag 420
 caaggctgtg gttgatgc 438

<210> 20439
 <211> 460
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G12

<400> 20439

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aaagatagaa aaacttgtga aggcataatgt tgataggcac agtacatgtc atccaacccat 120

caaatacagc agctctgaga tgggagcttg agcttaatgg tgatgacagc ttgaaccttc 180

tgctctacca atctgggttaa ccttcatttg taggccaac aagttaatat tgttcataca 240

aacatgtatg tccatgactt cttgaagcaa gtagtcagcg aagttccaga tattggtgca 300

tctgatgtta ttgctgatga taagcttggc aaaagacgta tatctatcct gtaattgata 360

aggttcttac atgtcaaaat aatcttctac gaagtgttaa taaatgctga attgtcatca 420

agaaagctgg agatggaagc gaggaggaat taaagaggac 460

<210> 20440

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G2

<400> 20440

gcagatttca atcttcgaat cagtctccag atatggctgc tcgttgcatc tacgggtgtc 60

cttggaaacct tcggctacca tgctcccgag tatgccatga ctggccagct aacttataag 120

agtgttatat atagctttgg ggttgctcctt ttagagcttc taacaggaag gaaaccagta 180

tatcatataa tgcctagagg tcagcagagt ctggttacat gggcaacacc tatattgact 240

gaggacacag tataacaatg tgttga 266

<210> 20441

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G6

<400> 20441

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cattcacgga acaacatgtg tcattttttac acttttttaac taatgtttgc gctattgttg 120
gaggtgtgtt caccgtttct ggaatcatag attcgtttgt ataccatagt caaagagcaa 180
tcaagaagaa gatggaaatc ggcaaattca actgatgttg ccttactatt gctgcaatta 240
agtagctcct gttgcagctc caagatccag aaatgcaatg tggcttttcc tcgaactctt 300
ggcacagtgt cgtagttgac aaacaattgc tcatcagata actcttgatg tgcttgccaa 360
cttg 364

<210> 20442
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G8

<400> 20442

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ccaagtacgc cggcagcccc aagagcagcg ctctcgcgt gatccaccag ccttgctagg 120
ttcgtctggc ggccccctgat ggggactcgg tgactcacat ggaaggctgc tgctctctta 180
gcagcatctg ctactggctg cagctgccgt cggcgtcgtg gtctgtctgt caaagtcgaa 240
gtaaaaaac gtgagtagtt gtactactgt agaagttgct tttgtatagc atgcacgtaa 300
gaaatgacca aaaaatataa caagaatgca gctgttagtt tact 344

<210> 20443
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-H1

<400> 20443

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acggcgatga tggggcagga cggcgtcggc ggaggggtga tcggggccct gctctacgcc 120
gcgctggcgg agctggcgct gcgtctggtg ctgtcgtaca agtcggcggc gcacgcggtg 180
cggcgggcgt ggcggtgggc ggacgagtgg gcgcaggcgt accagtacta cgaggtgccg 240
cgctcgcgg tcgacggcgc ggagaaccgc ctgttccgga aggcggcggc gtacgtggcg 300

tcgctgccgt cgctcgagga cgcggacgcc gnetgctgc tgctgctggc ggccaagagc 360
aacgacttcg cgctggagct ggggccgggc cacaccgcgc gggacgcgtt cctcgcgcg 420

<210> 20444
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-H10

<400> 20444

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tgtgaggaag aaggcgggtca cccagccgag cccggagccg gagcaggaaa ccgtgggtgga 120
gaagcgcggtg gaggaggcgg atccatggag cgcagctcgg cgggcggccc cctggcagct 180
ggcgtggcga gctcatccgc gcgtgctcga ctctgacggc ccggtgccgg ccgncgtacc 240
cgctctgtgc gacggcgagc tcgtcggcgt gggctacacg ccctatgcgc accagctgcg 300
cactcccccc tgctcgaccc ctcaattcct ggtggacggc ctaggggccc tccgatggtg 360
t 361

<210> 20445
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-H11

<400> 20445

ccgaaatccc gttgcgtctc tcgcgcgtta ccaagctctc aagttttctc gcgccgacgg 60
caatggatga ggtcaccgag gccgtgaaca acctcaacat ctcgggcgta ggggccgcgg 120
gcgttgccgg ggcggaaggg cacaagaaga atcgcatcca ggtctccaac actaagaagc 180
ccctcttctt ctatgtcaac ctgcgaaga ggtacatgca gctgcacaac gaagtagagc 240
tgctcgccct cggcatggcc attgcgacgg tggtagacgt agcagaaatt ctgaaaaata 300
acgggcttgc tgctcggaag agtatcatga catctactgt tgatatcaag gacgagac 358

<210> 20446

<211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H12

 <400> 20446

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 cctgttgtat tgaataaatt ttgcagcct ataactctta cccctgaaga atttttcctc 120
 cagtggaaag cgctgactgt tcacttgctg aagggttcaag aagtgggttaa aggtgtgaaa 180
 ccaatgcctc tttctgagat ggctaattctt ttcattgagcc ttcacttggc ggctcgtcct 240
 ggacttgata acaacccgaa caatctgggt gcattgcacga cattcttttc tgaagcaaca 300
 caagccatgc ttt 313

<210> 20447
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H2

 <400> 20447

 ctttaccact atgatcttcc tcttgcgctt gagaagaaat atggagggtg gtttaagcgcg 60
 aagatggcgg acttgtttac agactatgct gacttctgtt ttaagacctt cggcgatcgc 120
 gtaaagcact ggtttacatt caatgagcca aggatagtag cgctacttgg ctatgacaca 180
 ggggtcaaac ctcctcaaag gtgcaccaga tgcgctgctg gtgggaattc agcaaccgaa 240
 ccttacatag ttgctcataa ttttctcttg gcacatgcta ctgcagttgc aagataccgt 300
 acgaaatatc aggctgctca gaaggtaagg tcggaatagt cctggacttc aact 354

<210> 20448
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H6

 <400> 20448

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accccgcgcg cgggcggcgg ccccatccgc gcgtccatct cctcccccaa cccgccctac 120
 gacctgacgt ccttccggtt cagccccatc aaggagtcca tcgtgtcccg cgagatgacc 180
 cggcgctaca tgacggacat gatcaccac gccgacaccg acgtggtgat cgtgggcgcc 240
 ggggccgcgg gcctgtcctg cgcgtacgag ctgtccaagg accccaccgt gagcgtggcc 300
 atcgtggagc agtccgtgtc cccgggcggc ggcgcgtggc tgggc 345

<210> 20449

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-H7

<400> 20449

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 gttgcttcca aactgatggg tactgcaggt ggtctgggag cacttgcaaa aatgcctgt 120
 tgtaatgttc agttactcgg tgcaaagagg aaaaatcttg ctggattttc tactgccact 180
 tctcagtttc gtgttggcta tcttgaacaa actgaagtat ttcagagcac ccctccacct 240
 ttaaggactc gtgcctgcag acttattgct gcaaaatcaa ctctggcagc aaggattgat 300
 tcaattagag gtgatccaac tggaaaagct ggacggaact tgtagaaga aattcgtaag 360
 aagattgaga agtggcaaga acc 383

<210> 20450

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-H8

<400> 20450

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 gatgaggaag ctggaggagg ctgtccgcag tgtccagatg gagggctga ctagagagag 120
 caaatgaaca aagaaaagat tggatacggc atcaagaaga tgactatcat gttgacaatt 180
 gtcgacgatc ttgtgtccat cgacactcta attgaggacc accttacgca agagcccatc 240
 aatgagtacg tacagagtta cgacattggg gctttc 276

<210> 20451
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-H9

<400> 20451

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ctggaggagg ctgtccgcag tgtccagatg gaggggtctga cttggggagc atcaaagctt 120
gtgcctgttg gatacggcat caagaagatg actatcatgt tgacaattgt cgacgatctt 180
gtgtccatcg acactctaata tgaaggaccac cttacgcaag agcccatcaa tgagtacgtc 240
cagagttgcg acattgtggc tttcaacaag atctagagtt cagtttctga gattgggcaa 300
cggcagcggc tcaactcgtc 320

<210> 20452
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A1

<400> 20452

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tgtgaagctg ctcgatattg ttagagatca gcattcgaaa acgcccagct tgatctttga 120
atatgttaac aacacagatt tcaaagtgtc gtacccaaca ttaacagatt atgacattcg 180
gtattacatc tacgagttac tcaaggcatt agattactgc cattcacaag gtattatgca 240
ccgagatgtg aagccccaca atgttatgat agatcatgag cttcggaac tccggctgat 300
agactggggt cttgctgaat tctatcatcc tggcaaggaa tataatgtcc gtgttgcatc 360
caggtacttc aaggggcctg agcttcttgt tgacttgcaa gattatgatt actctttgga 420
catgtggagt ctggg 435

<210> 20453
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-A10

<400> 20453

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cttagttctt gacgcccaac ctgcccgttg catattcgcc tcaggaattt gggaattatg 120
tctctttgag gggaatcaag ggacttgctt ttacttgtct aggtccatg tctaagtggg 180
agccagtcac gtttcaggaa tctcttagct ttgttaagaa agtaaaggca cgtgactaca 240
tgctatacat atcattgctc gatgtgctca accggaatga tcaaaccct ctgcaagctt 300
acagcgagct ctgcttctg tttcagcatc acgaagatct gtagcggag ctgtcgaagt 360
tcaggccccct cccatgccca aacaacgttt atacacacgg ctcgatttgg atgatcatat 420
tcctcatgcc ttttct 436

<210> 20454

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-G10

<400> 20454

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cacttgaaag gagacaagtc tcgaaccttc tattacatga gtcattggca gtagataaca 120
ataagctgaa gtaacattct caaatttctc tcatggata cagggcttaa tcctcatcct 180
caacaacctt agttcccaaa cctttgagac cctccggtgg gatctcagca actgtgacca 240
gggagtagag ttctctcttc gcgtcttcct catcggttcg gttgcgggca attctgacac 300
ggacacgcct tggcacactg cggataccac tgctccagat gtgcttgggt agcttcacgt 360
caatcaagaa gttcgcattc attttcatat acacgaacgt gtactgctat aaagttaact 420
acc 423

<210> 20455

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E4

<400> 20455

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caaccgtag cttggcgcg cgtcctggacc agctcaacgc gcgctttggc gccggcacct 180

tcatcgcggc caacgcgttc cgcgtccact tcgacttcgt cagcgatccg gccgccttcg 240

gcttcgccac ggccaaggac gcggtgctgcg gacagggccc ccacaacggc ctgggcctct 300

gcaccccgct ctccaacctg tgcgccgacc gcagcaagta cgtcttctgg gacgcctacc 360

acccacgga gcgcgccaac cgggtca 387

<210> 20456

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E5

<400> 20456

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agggggtaat gacgaagtat cggttcaaga gatcagtga gcccagccct tgccttgaag 120

acggtgctca tttgccttaa agccccgctt tcttctcccg cacctggtga tcttcacgat 180

gttggtgttg cacagcaggt ccggactgag tatttctat ttggttctat ttttagtgca 240

ctataatatc acaagcgaag ctacaattgg ttgtgagcta tattggcata tccttcctt 300

ggatgtattc ccttgaacaa tgattcagaa caactgttta accattttct aaaggatcga 360

ctgcttatgt actcatgcag aactgcctaa ttgtgcctct ggctgaatag cagccaagta 420

agcatgacat gct 433

<210> 20457

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E6

<400> 20457

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tgcggactcc gctgcatcgc ctccggtcggc cgtcgtcata tcatgggtgt ccggctgccg 120
 gtgtgcgtgg tccgccgtcc tcgtcctcct cgtgcggggc gccgtggcgc gggagtacgc 180
 ggccatcttc aacttcgggg actccctggc ggacgccggc aacctgggtg tggacggcat 240
 cccggactac ctggccacgg cgcgcctgcc ctacggcatg acccacttcg gctacccac 300
 cggccgctgc tccgacggcc gcctcgtcgt tgacttcate gcgcaagagc tgggcgtg 358

<210> 20458

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E7

<400> 20458

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 atatttggtg tgtaactttt cattgtttat attgaaaaat ggaaatggaa cgctcccat 180
 gattcatgtg attgtggaca atctggaagt ttgaactcat atcctgtggt gacttatgta 240
 tattgtacac gcacgttgga tcctcctctg aaattgactg gaatagtttc aac 293

<210> 20459

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E8

<400> 20459

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 gaggagttct cagagctgta cacattcaaa tggacgaccc ttctgatacc tccgacaacc 120
 ctgctcctac tgaacttcat tggagtggta gctggcatct ccaatgcgat caacaacgga 180
 tatgaatcat ggggccccct gttcgggaag ctcttctttg cattttgggt gatcgtccat 240
 ctttaccggt tctcaaggg tctggttggg aggcagaaca tgacgccaac gattgtcatt 300
 gtctggtcca tctcctggc ttcgatcttc tcgctgcttt gggcccgat cgaccctttc 360
 cttgcgaagg atgatgggtc cctgttgag gagtgtggtc tggattgc 408

<210> 20460
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-E9

 <400> 20460

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 accgagtgcg agagatgcat agtcacgta tacataccaa tacaataccg tacctatagg 120
 tcttcctatt catgtggaag agtagaactt gtatccttat tagctgtcag taaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aggaaagcca aactaaaaaa ggccaaaaaa acaaaaaaaaaa ccagccacaa 300
 gaacgccgca caagcaaaaa aaaaaaaggg ggggggcttt a 341

<210> 20461
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-F10

 <400> 20461

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 cgctcctcct cctcccagcc gcagctggc gcggcgccgg cggtcctggc agcggcgctg 120
 ctgctgctgg cggcgggggc cgggacggcg tcggcgccgg tgagctgcgg cgaggtgacg 180
 tcgtcggtgg cgccgtgcct cggttacgg atgggcagcg cggcgctgcc ctccgcggcg 240
 tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgtcgt cggcggcgga ccggcaagcc 300
 acctgcaact gcctcaagag catga 325

<210> 20462
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-F11

 <400> 20462

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cacacgcatg cagtacagaa ttaaacaggt gtgtggttgt gtgccctgga tctagctatc 120
tagttcttag tgacagcggg ctactcattg tatgagcacc acaactagaa taaggaccac 180
aaggacgtcg aggaggccat cggctacacg atgtacaact aggtcttccg c 231

<210> 20463

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F12

<400> 20463

atcacacttg actggagttt cgaacaaaca aaatgcctta caataagttt aactttgcaa 60
actgtgaaaa gttcactgat gccaggctac cagatatact gcaattcctc aaaattctgc 120
aatgaagcat gccaaagagta ttgacttaa taccttgatt gcactatata aaatatcaag 180
acatagtttg agtcattgat tgatgacaaa gttatccata caatgtgttc aaagatgtca 240
tgttactgat gaatatcatt gaagaacttc catttacaat gtcacctatt cgtctgcacc 300
acagaaa 307

<210> 20464

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F2

<400> 20464

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cagctctcta gtctccagct ctagctagcc ttagcctcgt ccaagggacg aaggggccga 120
ccatgagcgt ggtgatcctg gacggctcca cggcgcgcg cttcgtggcg gacgaggcgg 180
ccttcgcgcg cagcctggac gcgcggttcg ccgcgctgga cgccaacggc gacggcgtgc 240
tgtcccgcgc cgagctccgg cgcgcgctcg agtccttccg cctcctcgac ggcggcggct 300
tcgggtccgc ccagccggcg ccgctccccg ccgaggtcgc cgcgctctac gacgccgtct 360
tcgagcagtt cgacgccgac cacagcggcg ccgtc 395

<210> 20465
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-F3

 <400> 20465

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 ggtgctgttg ttgaagtcaa aattatcgga aagcttcagg atggcgcggt gtttaciaag 120
 aaggggcatg acgaagagcc atttaaattc aagaccgatg aagaggaagt tattgccggt 180
 cttgatcgtg ctgtgttgaa catgaagaag ggcgaggttg ctcttgtcac aattcctcct 240
 gaatatgcat ttggttcaac tgagtcaaag caggatcttg ctgttgttcc acctaacagc 300
 acagtaatat atgaagttga gcttatttca tttgtgaagg acaaggagtc gtgggacttg 360
 aacaatgaag agaagattga ggctgctggt aagaaga 397

<210> 20466
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-F4

 <400> 20466

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 tgccgctcta tcggatctcg gccggagcca tggcgggcgg tggcgcggcg ctgctgctgc 120
 tggatgatgtg ggcgggcggt ggcgcggcgg ccgtgtacga ggtgggcggc acgattgggt 180
 ggaccgtcat gggcaacccc gactacgccg cctgggccag ctccaagcag atcgatcatg 240
 gcgacactgt tgtgttcacg tataacaagc agttccacaa cgtgctggcg gtgagcaagg 300
 cggactacaa gaactgcatc gccaccaagc cgacggccac ctggtccacg gggaacgatt 360
 ccgtcgtcct caacaccacg ggccaccact ac 392

<210> 20467
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F6

<400> 20467

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gggggagccc atggtcgctg cggctgctaa tttgctgcgc ggcaatgggtg gccatcgcgc 120
ttctccccc acaaggaggc caggccgctt gtttcgtgcc gacgccgggt ccagctccgg 180
caccgcccgg ctctctccgcg acgaacacga acgactcctc cgctgctcct cggccagcca 240
agcccagcgc attccccacc ccaatgtacg gtggtgtcac ccccggcagt ctccagccac 300
acgagtgcgg cggccgggtgc gcggggcggt gctcggcgac ggcgtaccag aagccgtgcc 360

<210> 20468

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-F7

<400> 20468

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gaaagtgtga gatgaacctg ctcccgagaa gctgcccct gcgaagcaag ggggctccaa 120
tgacagggat ctgctcttg caagggtgga aacagagaag aggaactctt tgatcaaagc 180
ttgggaagag aatgagaaga caaaagctga gaacaaggct gctaagaaag tatccgctat 240
tctttcatgg gaaaacacan agaaagcaaa catagaagct gaactgaaga agattgagga 300
acaactggaa aagaagaagg ctgaatatgc agagaagatg aagaacaagg ttgcaatgat 360
acacaaggaa gccgaagaga agcgagcgat ggtggangca taacgcggtg aggaggtcct 420
ga 422

<210> 20469

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F8

<400> 20469

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gagactggtg aaccaacaaa caacctagga ttttcagatc cgtgcattag aactggccgc 120
 acttcattcc aaacaaccag atctactagt ggaggcaaga gagaaagagg aaaccgcct 180
 ctggttcatg gtcgagatgc atctagaggt attcgtggag gaagggggtg gtccataggt 240
 ttcggaggtg ggagtggtcg tgggtggtatc tctgttcctg ttgaatcttt ggaggatgaa 300
 gcagaagctg aatctgaagc tcgttcagtt gtggatggag gaactgattt tgtacaacaa 360
 gcagccatgc ttgtaagaat gagaaa 386

<210> 20470
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F9

<400> 20470

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 cggggctcaa ggacgaggtg atgaagatca cgcccggtca gaagcagacc cgcgccggac 120
 agcgcacccg cttcaaggcc tttgtcgtcg tgggcgacgg cgacggccac gtcggcctgg 180
 gagtcaagtg cgccaaggag gtggccaccg ccatccgagg cgccatcacc ctcgccaagc 240
 tctccgttgt tcccgtcagg agaggctact gggggaacaa gatcgggcag ccgcacaccg 300
 tgcccttgca ggtcaccggc aagtgcgggt ccgtcaccgt gcgcat 346

<210> 20471
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E3

<400> 20471

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 gggaacataa ccgtagcagg gcattggtac aaaagcagta tggtagtatg gaggaggaat 120
 aatcattgga gaaagatagg ggggcatggc tcctggcacc accgttcctg cctctccagc 180
 aattgaactt gtggatatctg agtcctgttc cataggctga gatgtcatca ctggggctga 240
 aactggaact gggacctgaa ctggcgatgg aactgaagca gacactttca caggcacagg 300

aggtaccaca gtagctggag agaccacagg tgcaggcagg gct

343

<210> 20472
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C4

<400> 20472

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atgctcgctc ctccgagact ccagctccca ccacccaaac cccctcgata tcccaagaaa 120
tcctcgcaag aaccaacttt tgggtgccaa tgcggccaag attgccaacg cctccgaaat 180
tccggttcct cgcattccca ctagcacttc caaggccgca atcctggccc agaaggccgc 240
gctttggcgg gacgcccttg tccccgttgc cgccgccttc ggcctctgtc cgctcccttc 300
cctcgcggcg gagggcgacg ggaaagtgag cctcgagtcc atcgtggtgg caatcgacga 360
cttcaacaat cgcaaccctt tcttcgtggc tggggctcgtg ttcgtgtggc tagtgg 416

<210> 20473
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C5

<400> 20473

cggacgcgtg ggaaggccaa tcccagacag tgggtgcgaa cctcgagcgc tggcgccggt 60
gaccataaca aagaggaagc cgcggtagca ctggtagcgg cagcagtagg gggatatatg 120
cgtaagcggt cagcggcgat gagaccgccc ctttcttcgg cttccttggc gcctccgctg 180
cgctcgtctt ctcatgcatg ggggcggcgt acgggacagc caagagtggc gtcggcgtgg 240
cgtccatggg tgtcatgcgc ccagagctcg tcatgaagtc catcgggccc gtggtcatgg 300
ctggtgtact cgggatctac ggcctcatca tcggcgatcat catcagcact gggatca 357

<210> 20474
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-C7

<400> 20474

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tccccacccg cccccggatt ggcgctgccg caccagatc ttccccaccc aaatcgactc 120
cgccatcgcc cggatccacg cagagccgtc gcggatcgac gtgctgccgc cacagattgc 180
gcgctgtcgt acggatcgag agacaccac cgcaagcctt ccgcgctggc gccgttcggg 240
aagtaaggag gctacggaga gggcacaagc tgggggggtgt cgaactccgt ggagaacgcg 300
cgggcggtgg atgcctagct ctggtgggag ggtgaggaaa atcaggttca tcgactcgct 360
gctcctnctc gaaagcagtg gaccacggg ca 392

<210> 20475
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-C8

<400> 20475

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aagaagacta gaaccgaacc tgaccatgtc gctgatccgc cgcagcaacg tgttcgatcc 120
cttctccctc gacctctggg acccctttga gggcttcccc ttcggctccg gcagcagcag 180
cagtctcttc ccctcgttcc cgcgaccag ctcgagacc gcggccttcg ctggcgcgcg 240
gatcgactgg aaggagactc cagaggcgca cgtgttcaag gcagacgtac cggggctgaa 300
gaaagaggag gtcaagggtg aagtcgagga cggcaacgtc cttcagatca gcggcgagcg 360
caacaaggag cangaggaga agacggacac ctggcaccgc gtggagcgg 409

<210> 20476
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C9

<400> 20476

agctagccgc gccactcctt cgtgtagcca tcagccttct catcgccacc aatggccact 60
 gccgaggtcc agacccccgac cgtcgtggcg gccgaggaag cgcccgtggt ggagaccccg 120
 ccgccggccg tcgtgcccga ggagtctgcc ccgccgagg ccgaggccga ggccgaggct 180
 gctgctcctg ctgatccccga ggagcttccc gcggccgagc agcaggcagc cgccgaggcg 240
 gaggccgcgg ctctctgctgg tgccgaagag cccgtcgcgg ccgaacc 287

<210> 20477
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D1

<400> 20477

gctctctgct gcggccggat ccaggtcgg gcttctcccc tccctggcgt acctttggac 60
 cgcggcagca actcggttgg cggacgcttg ctgcccaccc tgaccattgg tttttccgat 120
 tctttgtttg tttgtaaccg ttacgtcac caccaccttc gcctcctgca caccgcgcca 180
 gccaaaccac tcccaccctg gaataaacct cgcaaattgc cgaactg 227

<210> 20478
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D10

<400> 20478

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 gccgacacta aacctgagca ccaacgtgcc ggtggacgcg gtggtcgccg ccgacatcct 120
 cagggactgc tccaaggccg tcgccaggat catcggcaag cccgaatccg tacgtcactc 180
 ccgcccccca cccgttcggc gcaatgcctc ggtcgcacgt cccttctctt taccaatgcy 240
 tgtaggtcc ctcccggtcg ctggtcagcg gcggcttggc tcagtgcctt ttctgatgaa 300
 acgaaacatt cccacgtgc tgcgctgcgg cctgcggtgc aatatgtcat ggtgtcggtc 360
 aacgggtcgg tgcccatg 378

<210> 20479
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-D11

 <400> 20479

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 agcatgcaag gttgactgca ttggacttgt gtgcgtactc tagtggtgag ggtgctggaa 120
 ctccatttct tcttgggtca ggagatgaga tggatacttt caccagaggt gttgaagaag 180
 agactcttaa gaatacactt aaatgtggtg ttggctatctt gcatgagggg ctaagtgagc 240
 ttgatcagga acttgtaacc cagctgttcc ttggtgggag gatccaagtg tgtgttgcaa 300
 gcagcacaat gtgttgggg 319

<210> 20480
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-D12

 <400> 20480

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 gccccgcgga gaagaggagg cagcgcgctc tccgtccgcc atggcgggct cttccgaccc 120
 cgacaagctc atgagcaaag ccgacaaact aacaaaattg agttttacaa gatggaatgc 180
 tgattggaaa agcgcctacct ccttgtatga gcaagctgca attgctgata ggttcagaaa 240
 ggacaatgag aaagcaaaag atgcttttga gaaggcctca aaaggacagg aaatgatctc 300
 ctcacatgga gacgctgcta agcatatgga atctgctgct gctttaacaa aggagcttgg 360
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 aaggccacaa cctgcatctg atgctct 447

<210> 20481
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-D5

<400> 20481

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tgcagctatc gcatatggat ccttgcttct taaaggtgct gaaataacctg aagttattac 180

aaggttcaac tcaggcaaga gtccatcaac tgggaaaatg cggaaaagga cccaacagca 240

ggatccagta aagctagcga aagaacagtt tcaaattgca gctgaggcag gctgtgatct 300

cggtctgcgg tgggtgaaga ggcttgaagc ttatgaaaac caagaagaaa agctaaagca 360

ggttcagcaa tgatatccac tgaaagaatc ccattgcatt tgtcgcatta cag 413

<210> 20482

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D6

<400> 20482

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gggaagggaa gaacggccca gcaatgccgc tctgcagctt ctacgcctcc acctccgttc 120

ccgtcgtcaa gcccagcag tccgtcgcct cgtccaagcc ccccaccacg gcggtggcct 180

ccgtggcgac aactgtgccg atgcgcagtg cagcgacggt gacgccagcc gtggccacaa 240

caacgagcct agcgtgtct ctgcacctgc cggagctgcc gtcgcaggtg aaggacaaga 300

tcctgagcct ggagctgatg ggcgaggact atgggcgcgc gctggagcag aaccgggcgc 360

tccgcgacgc 370

<210> 20483

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D7

<400> 20483

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agtttagttg cagtagtcaa tccacaccaa gaaaacacaa tgaagtgggc agagtccaat 120

ggctacaagg gttcttttga tgaaatctgc aaacttgaag gactcaaaga gtacatcctg 180
aaagagctgg cagccgttgc gcagaagaac aagctacgag gcttcgagta catcaaaggg 240
gtagtgttgg atcctgtgcc ttttgacatc gagagggatt tggtgactgc aacaatgaag 300
aagaagagaa agaatatgct gaactattac cagtctgaga ttgacacaat atacaaaaag 360
cttgaggcgc aaaagaatgc tgccagaact aagtgaagag atgtgcct 409

<210> 20484

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-D8

<400> 20484

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gctggcaagc agctggagga tggtcgcacc ctccgggact acaacatcca gaaggagagt 120
acccttcacc ttgttctccg cctcaggggt ggtatgcaga tctttgtgaa gaccctgact 180
ggaaaaacca taaccctgga ggttgagagc tcggacacca tcgacaatgt gaaggcgaag 240
atccaggaca aggagggcat cccccggac cagcagcgtc tgatcttcgc cggcaaacag 300
ctggaggatg gccgcacctt agcagactac aacatccaaa aggagagcac cctncacctt 360
gtgctccgtc ttcgtggtgg tcagtaagtc atgggtc 397

<210> 20485

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-D9

<400> 20485

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tgatggcccc atttgcagag actcttggca gtaagtatag gaaaacatgg cttcgacttg 120
tccatcgtag tttggagctt gcaggtcctg cgtttatcaa atggggccaa tgggctgcaa 180
cacgcctga tctgtttcca agtgacctt gtactgaatt gtcaaagctg cacacaaaag 240

caccagctca cagctttacc tatactaaga aaactgttga gaaagctttt ggtcgaagc 300
tatcagacat ttttgaaaat ttt 323

<210> 20486
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E1

<400> 20486

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aggaaataga ttcataccag cttatgtatg aggaggatcg cccaaagttc attccgaaac 120
gatttgagtg ccttcgaagt gtacctgcat atgagaaggc gttgagggaa ggttttgatc 180
ggtgtctaga tctttatcta tgcctagaa cccgcaaaaa gcgtataaat attgatcctg 240
agtcactcaa gccaagtta ccaagtaaaa aggatttgaa gccatacccg aaaacttggt 300
accttgagtt caagggccat a 321

<210> 20487
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E10

<400> 20487

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ctagcagcag ccacacccac accgtacgtc ggcattggcta ggtggtcgtc gtcagctctg 120
gtcgccgtcc tcgtggctcc ggccgcggtg gtggcggtgt ccgcggcgcg ccccgctccc 180
gcgcagcagc agcaggcggc agaggacgtg aagcggccgg acacgctgca cgaggggacg 240
gtgctgatcc cggggatggg gcgctacgag atcggcagcc actacatccc ggacatcggg 300
cggctggacc acagca 316

<210> 20488
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-E11

<400> 20488

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cccgggtcca aatgcgagag gaacgcgtgc gccacgtcgc tggaatccat ggtggacttt 120
gccaccgtca gcctcgggac cagccacgtg agggccgcgt cgactgtcgt ggtgagggaa 180
ggctcgccga agcaggagta caccgtgaca ggcgtgaagc gggctggcgg ggggcgcctg 240
gtggcctgcc acgcggagcc gtacgcgtac gccgtgttcg cgtgccactt g 291

<210> 20489

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-C2

<400> 20489

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gagcgagcag caagatgtcg tggcaggcgt acgtcgatga ccacctgctg tgcgacatcg 120
aaggccagca cctcagcgcc gccgccatcg tcggccacga cggcagcgtc tgggcacagt 180
ccgagaactt ccccgagtta aagcctgagg aggttgctgg gatgataaag gactttgatg 240
aacctggaac tcttgcacca actggtcttt ttgttgaggg tacgaagtac atggtgatcc 300
aagtggaacc tggagtgtc atccgaggaa agaagggcac tggaggcatt actatcaaga 360
aaactggcat gtncctgnat atcggtatct atgatgagcc aatgactcca gggcaatgca 420
atatggtggt gg 432

<210> 20490

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A6

<400> 20490

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gccatatctt gttatggcta ctaactccat tggttttgaa cagaaaagga gaacttgtgc 180
ctctatggct atcccgatga gacatgggag gttaccttgc cagctgagga agtgccccc 240
gagatccctg aaccagcatt aggaatcaac tttgctaggg atggcatgaa tgagaaggac 300
tggctggcgc tagttgcagt ccacagtgat tcctggttac tatctgtcgc attctacttt 360
ggtgcacggt ttggatttga cag 383

<210> 20491
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-A9

<400> 20491

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ggactatcct tgttggcgta ttgttttatt aacgattata tttagccagt tataatccgt 120
taggtgagca gattgtttgc ttgggttacc agatctcggg agccagtggg tgcggttcca 180
ggtcttctgt tgatgactta tcacaagatg tgcttgtgat tcccgtgtat gaggaattgc 240
gacatcgtag aggcgtaggc tatgttcagt agatcgtgcc ttgcctcgtg tataataata 300
cntgtttgta tcgtagacaa tattgggttac agagatgatg atgagtaagc ttgtggacat 360
aagcagtgcc ttatatcacg gttaggtttt ggcctttggt tcgttggggt 410

<210> 20492
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B1

<400> 20492

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agtattatga cacatacctt cctttccttt tggaggcatc aaacgatgaa aattcagatg 120
atcggcaggc tgctgtctat ggtgtgggtg tatgtgccga gtttgggtgt catgtttttc 180
gccctctagt aggagaggcc ttatcaaat taaacaatgt tataaggcat cctgatgcac 240

gacttcctga taatatcatg gcatatgaca atgctgtttc ggcgcttgga aaaatatgcc 300
aatttcacg ggatgggtatt gacgcagctc aggttggtcc agcctggctt agctgcttgc 360
ctataaaaga cgacaagggtt gaaactaaag ttgtacatgg acagctttgc tccat 415

<210> 20493

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-052-Q1-K1-B11

<400> 20493

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gaatcacttc atctgatatt gctacaaagg cgctggaagc taaacgtgcc aaagtcattg 120
gacaagcatt agctgggtga cccttggtgc agcttggtcc tgagagtaga tttcctgggg 180
tcccttacat tggttttccct ggtaatgttg gtgataacag tgctcttgct aaagtgggtga 240
aaagtggggc ttccccatct agaagttcta caaaagaaat tcttcttgat gcggaaaagg 300
gcggntatgc 310

<210> 20494

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B12

<400> 20494

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aggggaggaa tgcagatctt cgtgaagaca ttgactggca agaccatcac cttggagggt 120
gagagctccg acaccattga taatgtgaag gccaaagatcc aggacaagga gggatatccc 180
ccggaccagc agcggctgat ctctgccggc aagcagctgg aggatggctg caccttggtc 240
gactacaaca tccagaagga gagcacctc catctgggtgc tccgcctgag gggcgggtatg 300
cagatctttg tgaagacctt gactggcaag accataaccc tggagggtga gagctctgac 360
accatcgaca acgtgaaggc taagatccaa gacaaggagg ggattcccc agaccagcag 420
cgtctgatct 430

<210> 20495
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B2

<400> 20495

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ctctcctcgc cccctcgccc tctgccgcgc gccctcgatc cgcgccccctc tcgtgcgcag 120
ctcggccgtg cagggggccac gcgggggcgt cagcggttga cggcgcgga gggcggaggc 180
ccccgagcgt ggcggcgatg tcgtcgtcga cgccgccgcc gggatccgtg cagaagtcgg 240
aagaggagtg ggaggccatc ctcacgccgg agcagggtcaa catcctacgc ctcaaaggca 300
ccgaataccc tggaacgggt gactacgaca aggttcttga ggagggcatt tattaatgtg 360
ctggatgtgg aaactcccta tacaaatcat 390
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<210> 20496
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-052-Q1-K1-B3

<400> 20496

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aactcgccgn cggcgctgca gcccggtggc cctacctcgc cggcgctcgt gtcgcggtcc 120
tctcgcgtgc ctcttgctc ccagtagccg agtcgtcctg cgtgcgagat aactcattgg 180
tgagagacat aagccaaatg ccgcaaagca gctatgggat tgaaggattg tcacatataa 240
cagttgctgg tgcgctcaat catgggatga aggagggtga agtgtggctt cagacaataa 300
gtccaggtca aaggacgccg atccacaggc attcctgtga agaagttttc actgtcctca 360
aagggaaggg tacgctctng atgggatcaa gctcactaaa gtacc 405
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<210> 20497
 <211> 361
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B4

<400> 20497

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tgtatgacca gcacccaaat gtaccaccac caacaattta accatgacac cagaccatat 120
gtatatgaaa ggttcccccg gtacactctt tattcatcct tgaacacaaa atctagacgc 180
cgcctctcac cctcgggtgt aaaaccaatg agccagacat gatctcacia tgccaactaa 240
aaatcacaa atctgagtag agttatgac atcatattct attagcccat atttccaaga 300
agtcgctcca ctgcagcatg aacattttca gcggtagcgg ccaaaggctc gggatgttct 360
c 361

<210> 20498

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B7

<400> 20498

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gaagatgtga gaagagaagt gagaatactg agttctctgg caggccacag taacctagtg 120
cagttctacg atgcttttga ggatgaagat aacgtgtata tagttatgga attatgtaaa 180
ggaggtgaac tgctggacag gatattagct aggggtggaa agtactctga agaggatgca 240
aaggttgtta tgggtacaaat tttgggtgtc gtatcatttt gccatcttca aggtgttggt 300
catcgtgac tgaagccgga gaatttcctt ttctcttcaa aggacgaaaa ctctcccttg 360
aaggtcatag attttggcct gtctgacttt gtgaagccag acgaaagact aaatgatat 419

<210> 20499

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B8

<400> 20499

aggaaggcaa ggcgtgatgc cctcaaagaa tctggacaaa gttttgagac gagttctgtt 60
 gctgcatcaa ttgatagcga taaagttctc tctgaaaatg gagggttgga gcatgggtctg 120
 acttcaacag gtggcctctc ttctgtccct gagaaaatca gtgcaagttc tgatgggtctt 180
 gaacttcaag cagatgatga ccctgaaatt gttggagaac agttgcattc tgaccagcta 240
 tcttatgggtg atgatactga tacatgcacc aaagaattgg ataaactaga tataaaaagt 300
 gaggatgagg gaggtgacga tgcacattcc gtagactatg agagcagtga gcagagttgg 360
 gccctgaggt ctttatctga atcaacta 388

<210> 20500
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-B9

<400> 20500

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 ctagcactcc gttaacaatc gagtaatcca cggcgcgga gtaatgtact tatatgtgct 120
 accaggtagt gagcagacga aggctcggca gctgagcgac gggcaggccc ggaagcggcg 180
 gctgagcgac gggcaggcgc ggttcctgga gctcagcttc gggaaggagc ggaagctgga 240
 gacgccccgc aaggtgcagc tggccgccga gctgggcctc gacgccaagc aagt 294

<210> 20501
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C1

<400> 20501

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 aggctgaaag gtatgaggag atggttgagt atatggagaa ggtggctaag actgtagatg 180
 tggaagagct cactgttgag gagcgtaacc ttctgtctgt tgcatacaag aatgtgattg 240
 gggctcggcg cgcttcattg cgcatgttt cttccattga acaaaaggag gagtccccgta 300

agaacgaaga gcatgtgaac cttatcaagg aatatcgtgg caagatcgag gctgaactga 360
gcaatatctg tgatggcatc ttga 384

<210> 20502
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-C10

<400> 20502

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ctggaggagg ctgtccgcag tgtccagatg gaggggtctga cttggggagc atcaaagctt 120
gtgcctgttg gatacggcat caagaagatg actatcatgt tgacaattgt cgacgatctt 180
gtgtccatcg acactctaata tgaggaccac cttacgcaag agcccatcaa tgagtacgtc 240
cagagttgcg acattgtggc tttcaacaag atctagagtt cagtttctga gattgggcaa 300
cggcagcggc tcagctcgtc aagtttgtgc tgggatgcc a gtttatccct tctagtctat 360
tacagaaatg ttgntcggag ctgagtctat tataaacatc ttgggtcttga gttattggtg 420
agtggtgcca agttttttca atat 444

<210> 20503
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-C11

<400> 20503

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gcaaacgccc ttggtgccac tgtcatcggg actgtttcca atcaagaaaa agccgctcag 120
gcagctcagg atggatgcc a ccatcccata atttacacta gcgaggatgt cgtcgcaaga 180
gtcaaggata ttacatcagg aaaaggtgtc aatgtcgtct atgattctgt tggaaaggat 240
acatacaagg cttccctgga gtgcttggcg tcccgcggct tcctgggtgtc gtttgggcag 300
tcgtcaagca aacctgaccc aatcccaacg agcgacctgg c 341

<210> 20504
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-A5

 <400> 20504

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 gttctttccc ttcgtcctcg cattgctgtc ttctcgggtg taaaaatcag aggatcaatg 120
 attgtttgct tggtgcttca aacgcaaatt actattcgtc ttcgtcttct cccctctctc 180
 ctctgaattg ttcctgtcag tggggcaggg catacaatac attatccccg tgggccccgc 240
 ctcgaggccc gcccgacgaa gggagaaaga aagaaaatcc aagtgtgctg gccacttggt 300
 cgctagtata gttcagcttg ttcgctgcgg cttgctgcgg ctgcaatccg gctgcggctg 360
 cggcttctac agtatTTTTc tctctatgga ttgcagctgc agcagttcaa acagctggca 420
 cagtgtcgg 429

<210> 20505
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-052-Q1-K1-C12

 <400> 20505

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 tccgtcggcg gtttcggcgg cggcgaccac gggcttacgc acattcacct gtacgtgcac 120
 gagacgtaca ccggggcgaa cgccacgggc ggcggcgtgc tggagtcccc gggtggcgcc 180
 aacttgctcg tcgggagcat gggcctggtg gaccaccaga taccct 227

<210> 20506
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-G8

 <400> 20506

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cgtctactcc atcggcaagc cgatcgacgc ctgggtcaag gacatgcccc cggtcgccta 120
atcgcacccc atttaccat ggatcggatt cccggaagga agaggagaga agctgggtga 180
ccgctcttta ttacagttag tttctgcagg ctacgctacg cgattatgta tagtgtcagg 240
catgaaaaac ggttcggacg gactgctagc attgctgct gctcgggtgac ctcgtgtcgg 300
aggacgtctg tcgatgtaca attacttcag ccccttgtgt tcggctagag gaagt 355

<210> 20507

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G9

<400> 20507

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tgatgagttt gactttgtgc gcgaagcaag agcaatggaa agaatacgag aatttctacg 120
tgtcactaat aagaaacctc cggttatggg gcctcgtgtg attcctggga tggtttagcag 180
agaagttttg ataatggaat ttatcaaggg gaccccaata atgaatcttg gcaatgaaat 240
ggctaaaagg ggcatagac ctggtggtaa gattgcagca atggcaaagc agaagatttt 300
gtcagatctt actcttgcat atgggtcaa atgatctgaaa gatggctttt tccatgcaga 360
accacacca ggaacattc tta 383

<210> 20508

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-H1

<400> 20508

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gtcagcctct cgcccacag cccgtcgggg tcgggggtcag ggtccgggtc cgggtccggg 180
tccgaccgta gcgacctgag ccacggcgcc ggccaggttt accgccccgt ggcgcgggtc 240

ggtgggttcg agccggcgga ctgcgcgatg agccgtccgc tggaggaaga ggaggaggaa 300
aaggaggacc cgctcacctn cctcagcctc tcgcttcccg gcacggacca gcggttccac 360
cacgaccgcg cccacagcca gttccaggag ctcccggcgt c 401

<210> 20509
<211> 250
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-H10
<400> 20509

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ggagaagcgc gtggaggagg cggatccatg gagcgcattc cggcggtcgg tcccctggca 180
gttggcgtgt cgagctcatc cgcgcgctct ctactcgctc gcgcctgtgt cggtcgctgt 240
tcccgttctt 250

<210> 20510
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-H11
<400> 20510

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ctttgctgtt caccaggatg ttgatggaag ggcaacagat gtagctctag ggtggtcagt 120
agcttttaggt tctcctttca catttgctac tactctagag caggagtacc ggagtgacat 180
ttttggcgag cgaggtatct tgcttggtgc tgtccatggc atgggtggagg ctcttttcag 240
gagatacaca gaacaaggaa tggatgagga ctcagcatat aagaatactg tagagagcat 300
cactggaatt atatcgaaaa ctatttcaaa gaaggggtatt gctggaatgt ataactc 357

<210> 20511
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-H2

<400> 20511

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 gtaagcaccg ggatttggag gcaatttgcc atcccactgc cactgcatct gactgatcac 180
 acacttgccg agttccaggg aagggttatg ctgggtgggtc tgctgtgcaa aaatgcagcg 240
 acctgcatct gcatatggga gttgcagaag atgactctcc tctggaaaga ggtggacaga 300
 atgccaaatc tctgggtgctt agagttctac ggtaagcaca tgaagatgaa atgcctgggc 360
 aacagtgggtt tgctcatgct ctccttgaag gcgaagcata tgaaccgnct tgttacatac 420

<210> 20512
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-H3

<400> 20512

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 ttcatgctgg gcaactgcct gttccgctcc ggcggtcgcg cctacttctt gaccaacgac 180
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 gtgctggcgc cccgcgtgct gccgctcccg gagctgctcc gnetcgctg cgccaccctc 420
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<210> 20513
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H4

<400> 20513

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gcgtgttgct gaatgtgggc tggcacaatt gatggcgtct ggttctgtta cacagctatc 180
aggccgtatg agagctctac tcaattatga agcacctgaa atccatgaat ctgagccttt 240
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taagccatat gacagttctc gtccacgtga tgaacaacat cttgttcgat gggctaattc 360
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<210> 20514

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H5

<400> 20514

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atactacggt tgtcagcgtg ctcggggaag gct 93

<210> 20515

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H6

<400> 20515

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ttgacatata atgtaagcac ctgaatttgg actcaatttg ccatcccact gtcactgcat 180
ctcactgcat acacacttgc cgagatccat agaaagggtta tacatatgtg tctgctgtgc 240
atatatgcat ttacctgcat atacat 266

<210> 20516
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H7

<400> 20516

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ggcctcgcct gggccacgga cgaccactcc ctccacaacg cttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcggccg tggaggctgc 360
ggcggcggcg ggtacggtgg tggccgt 387
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<210> 20517
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H8

<400> 20517

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tcttcgacaa tagatgctca gcgcgtgttg ctgaatgtgc gctggcacia ttgatggcgt 180
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aaatccatga atctgagcct ttacttgtc aaagcgacgt atataagttt gcgtgtcgtg 300
atgcttgaac ttcttactga gtcgaagcca tatgacaagt tctgttcacg tgatgaacaa 360
catctctgtt catgggctaa ttctcagctt catgacatgg 400
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<210> 20518
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-H9

<400> 20518

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aagtgaggtg cctggaagat ctgcgcaaga aagagacgcc ctacaagaag atcaagacat 120

caaggagtag cgtcgcgtta gacgaagagc aggactgtca tacgccggcc ggtcgtacca 180

acaggaaaac ggcccgaag tgggtggcca aacttgtggg ttcggaccaa cggcaaaaac 240

atgctgtaca gacttcccc agtcctgtga acacaaaagt ggataccgtc agtaggcttt 300

aggacatgac tggatgatat ctatccaggg tttcaccttt gggttttttt ccttctccat 360

ttttgaggga tttgttgac a 381

<210> 20519

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A10

<400> 20519

cgaccacac gtccgacagt atgctatcgc atggagttac ggtttgacat cactcatatc 60

gagtgttaagg gatgggtgga cttggagtcg acgattgtca agtaccgagt ataatgacca 120

gatatatccg aagggtgaacg ccttgttggc taggcatacc acatctctta tgacagtggg 180

ccctgttgca agtgctctgc tacatactac atccaagatg ggctacatag gcccaagttt 240

cagggtgctga tatcttaaac aaaatcaatg ctatgggtcga gtgaaactct ctaatctatt 300

ccatcatgaa actgtgttgg ataataac 329

<210> 20520

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A11

<400> 20520

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atcgtacgtg agcccggccg agcgagagcg agggagagggc atggctgctc cgaagctcgc 120

gacgctggcg ctggccgtgc tcctggcggc gaccgtgggtg gctcccccg cgcggtgcg 180

cgcgggcgatg tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca 240
gatgggcggg gccatggccg cccagccgtg ct 272

<210> 20521
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A12

<400> 20521

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agttctaacg cgatggctca caactcggac tcgaacccat ctgcatatac accgacaaac 120
gatgaaaaag cccctaacac tactgaaggt catatacca aatccgaaac tctcctgcac 180
gactgtaagt cctcctgcaa ggacgcctgc tagtataaca gcaagaataa cgcccataag 240
ctca 244

<210> 20522
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A2

<400> 20522

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accagcagg gttgaatata tggctggagg agccaccag aactttatca gggttgcca 120
agggatgctt aaaagtagtg gtgcaacaag ttacatggga tgcattggga aggacaagtt 180
tggtgaggag atgaagaaaa atgctcaagc tggacgagtt act 223

<210> 20523
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-052-Q1-K1-A3

<400> 20523

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aagcattgga tagatgggag caacatgcgc gatctgctta tgaatatattt gagaaggaag 120
gcaaccgatac tatggttata gatgattnag cttctgaatt gggcctcagt ccttcagtgc 180
cactgcatgt cgttctgcaa gattggatca ggcatacggg tgggaaatta agttttcttg 240
gatttgtcaa gttgttgcac ggcattgcca gcaggctcct gtcaaagatg agatagcttg 300
cgataatctc taacgacagc 320

<210> 20524
<211> 444
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-G7
<400> 20524

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tgagaaggat attaagaaac cactcttaag gactgactag aagaacatgg ccacccttat 120
ggcagagttt gacaagatta acacaaagct tggcattcgg aaggaggatc ttcctaagat 180
cgagaaagaa cttgaattgg agattgcca aagtgaagctg actgaactta agaaggaatg 240
tgttgaggca atggagactc aactcaagag ggaggagtgc caagatgagg agatgcctga 300
tgtcaggaaa ctggacatcc gaaacttcct gtaggcctga tcgacgataa cctttgaggc 360
attgcaaatc acccagccca cctgtgattn tttttctttt ggttntgggt tcaagttgat 420
cgggtgctgta agctacacct atga 444

<210> 20525
<211> 460
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-F2
<400> 20525

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aggctgggct ccaaactg cgctggtcga cgcagcaaca tcagtgatgg gaccttggga 180

gacgctgggg aatccttggt tgggagggaa cgaggtcttc agatcaacaa cgttcttctc 240
ccagagcaca tttgtcttgc cggttccagg gctgccgggc tcattcatct tcatggctga 300
tcggtggaac ccatccgatc ttagagattc gcggtatgtc tggctgcctc tgacgatagg 360
gggagtcctt gatgaagccg cagactatag cttcatgttc cctctctggg cccgggtgtc 420
catctactgg cacaaacggt ggcgctctcc tgaggagtgg 460

<210> 20526

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F3

<400> 20526

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aaacatgaat gcaccgacta tatattaaca tctgcctgca cagcctagcc tccaaacact 120
gcgctacctc acgcatcaac atcattcatg ggaccttgat atactctcct caatccttgt 180
ctggaacgga actaggtctt catatcaaca acgctcttat cccacagcac atttgtctta 240
ccatttccag cgctaccgct ctcattcatc ttcacgctc accatctgaa cccatcctaa 300
cttaaagact cccggcatgt ctta 324

<210> 20527

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F4

<400> 20527

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tgttgcaaag aactttggag ttacagaatt tgttaacca aaagagcatg acaaaccgat 120
acagcaggtc ctggctgatc ttacagatgg cggcgtggat tacagctttg agtgcattgg 180
aaatgtttcg gttatgaggg ctgcactgga atgctgccac aagggctggg gaacctccgt 240
catcgctggc gtcgccgctt ctggccagga gatcgccaca cgaccattcc agctcgtgac 300
tgggcgtgtc tggaagggaa ccgctttcgg tggcttcaag agccggaccc aggtcccatg 360

gcttggtgac aagtacatga aaaaggaaat taagggtggac gagtacatta cgacaacat 420
gaacctggct gacatcaacg acg 443

<210> 20528
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F5

<400> 20528

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cagggttgcc ttcttgacat agatatatgt ggccctagca tccctaaaat gctaggcctt 120
gaaggacaag atattcatca aagcaacctt ggctgggtcac ctgtgtatgt tgagtccaac 180
cttggtgtga tgtcgattgg tttcatgctg cctaattccag acgatgctgt catatggagg 240
ggtccccgca agaattggact gatcaagcag ttcttaaagg atgtcgattg gggggagatt 300
gactatcttg ttgtggacgc tctccagga acatctgatg agcacatctc gatcgtgcaa 360
taccttcaag ccacaggaat cgatggcgcg ataatcgta cgactccgca gcaggtctct 420
ctgattgacg tgagga 436

<210> 20529
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F6

<400> 20529

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aggccggacg ttggggggac cggggctcga cgccagccgt ggatcgcggtg cggaggggga 120
caagcgtctg cctcatgtcc cgcgacggcg gggaataggg cgacggcgctc ggcggcgggg 180
atcggttgcg gcggcggtgac gaggcggctg cggcgggcggc tcgggagggg ggcggcacca 240
tgtctgcggt agtctgtggc aagaggtcct cctccatctt cgccgacgag ctctctccgc 300
cgtctccttc ctcccctcac tctcccacc agcggggcgc caagaggtcc cgccgctccc 360
cctcgacccg cggcggtccc gacggactcc gaccggaggg gctcgtcgac tatctacttg 420

ccctcttccc cgacatggat c

441

<210> 20530

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F7

<400> 20530

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aattggcctg gtgcttaaca ctattgctat tttctatgga tcgttagctg ccataccatt 120
tggtacgatg gtggttgttt tcatcctgtg ggccttcac tctttccctc ttgcactttt 180
gggaactgtt gttggtagaa attggagtgg tgctccaaac aatccctgta ggggaagac 240
tattcctcgc cctattcctg agaagaaatg gtacctcaca ccatctgtca ttgcgcttat 300
gggaggactg cttccttttg gtagtatctt tattgagatg tactttgtct tcacatcggt 360
ctggaactat aaggtctact atgtttacgg gttcatgttg ctggctcttc tgatactcat 420
cattgtcacc atatgtgta 439

<210> 20531

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F8

<400> 20531

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agcagttatc agagtaccaa accgtgtgac tgaaagcttc atcatggaca ccataccagcc 120
catctttaa aaaacaagt acttaagact tgcggtcatt ttctcttcag taagtttaag 180
gccaaaggag acgagtaaca aggacttggg tgcgactgct tgccttgcaa tgttcagtgg 240
cctcgaactg aagcatgaat attctgaagt cgccagaaaa atgttggata ggcttcaaga 300
attaagcaag aaatcagatg ggaaggctct ggcaatcgat ttgcggaccg acttgctgga 360
aaagaagagt tgcaagacaa ccagtggcgc tcgaagaaaa ggctgctata accctaata 420
ggctcctggct ttctgagga gtgt 444

<210> 20532
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-F9

<400> 20532

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 cagccgatgc ggctctactc cagcctgtgg aacgcggacg actgggagac gcagggcggg 120
 cgcgtcaaga cggactggtc ccacgcccc ttctccgcct cctaccgagg gttcaaggcc 180
 gacgcttgcg tcgccgtcgc gggcgggcgg acccgctgcg gcgccaccgt cggcaccgag 240
 ggcaccggcg ccccgccctc cgccgcccgc gccggggact ggtacaacca ggagctggac 300
 ctcaccctgc agcagcggat gcgctgggtg cagcgcaagt acatgatcta caactact 358

<210> 20533
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G1

<400> 20533

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 ggagatgttt ggaaaatatg gaaccataac tagtgctggt gttatgcggg atagcgatgg 120
 aaaatccagg tgttttggat ttgtcaattt tgaaaatgca gatgctgctg ctcaggctgt 180
 tcaagagttg aatggcaaga tattcaatga taaggaactg tatggttgaa gagcacagaa 240
 gaagtctgaa agagagatgg agttgaagga gaaatttgaa aagaatgttc aagaggtagc 300
 tgagaagtgc caaacacaa acttgatatt gaagaactta gaggagaaca ttgatgatga 360
 gaaattgcgt gaactctttg ctgagtatgg caatattac 399

<210> 20534
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G10

<400> 20534

agaaaacggc atacagccat atgtaacaat ctttcactgg gatgtacctc aagcacgaga 60
agggaagtac tgcggcctttc tagataagag tcataagagc attgtagaag attacacata 120
ctatgctaag gtgtgctttg ataacttctg cgacaagggtg aagaattggt tgacctttaa 180
tgagccccag acatttac 198

<210> 20535

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G11

<400> 20535

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acgtgcctgg gctaggattt aggttgagat caggagaggg agaaggcggc ggcgatgggg 120
cgcggaagg tgcagctgaa gcggatcgag aacaagatca accgccaggt gacattctcc 180
aagcgccgct cggggctact caagaaggcg caccgagatct ccgtgctctg cgacgccgag 240
gtcgcgctca tcatcttctc caccaaggcg aagctctacg agtactctac cgattcatgt 300
atggacaaaa ttcttgaacg gtatgagcgc tactcctatg cagaaaaagt tctcatttcc 360
gcagaatatg aaa 373

<210> 20536

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-G2

<400> 20536

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agacccgcca gaggctgacg tgtaaggacc gtagactcag cgactgcgaa ggacggatta 120
ggggatggcc gggatcggac cgatcactgc aggactggga gcctgtcgtt gtgcggaaga 180
aggcaccac cggcgacgac aagaaggatg ataaggcca caacgtcgcg cgccgtgccc 240
atgcggatat cgataccatg atgaagtaca acgtgggtac aaaca 285

<210> 20537
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-G3

 <400> 20537

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 gcggccaggg gcgagaggaa ggcgtgcgcc acgtcgctgg aatccatggt ggactttgcc 120
 accgccagcc tcgggaccag ccacgtgagg gccgcgtcga cggtcgtggg gagggagggc 180
 tcgccgaggg aggagtacac cgtgacaggc gtgaagcggg cgggcggcgg gcgcctgggtg 240
 gcctgccacg cggagccgta cgcgtacgcc gtgttcgctg gccacttgac gcagcagacg 300
 cgggcgtact cgggtgtcat gctgggcaag gacggcacgg ccgtggacgc tgtcgcggtg 360
 tgccacgcgc acacgtncgg ctggaacccc aagcacgtcg tctggaccgc cggcggctga 420
 gagtggtcgc cgtttgcatg cact 444

<210> 20538
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-G4

 <400> 20538

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 aaaggccgtc catctacagc agctactgca cctggtaaag gttttggtat gaaattaggg 180
 aagacacaga agacaaatca attccttgaa tctttgaaag ctgaaggaga agtcattttg 240
 gaggatgtac aaccaagtgc agtttctaca aggtcatctg ctcttcacc aagtgaccct 300
 gtcacagtaa ctatagaaga gaagctcaat gttgntgtta aaagagatgg tgggtattaat 360
 aactttgatg ttcaaggaac acttgctctt caggttctca atgatactga tgggttcac 420
 caattgcaga ttg 433

<210> 20539
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-G5

 <400> 20539

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 gtgaaggaga cgacggggat cgtcggcctt gaggtggcgc ccaacgcgcg ggaggttctc 180
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 cgcaaggccg ttgagtcctt caccaatcac cgctccaga tctgccagga ggaggacgac 300
 tggaagcgca tcgaggaccg aatcggatgc gggcaagtcg aggagctcat cgaagaggcc 360
 gaggacgagc tcaagctcat cgccaaaatg atngaattgg atcccgtggg tgtccctgat 420
 gactacgaat gtgaggtgat tgaagacgac accccaat 458

<210> 20540
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-G6

 <400> 20540

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 aaggccgtcc atctacagca tctactgcac ctggtaaagg ttttggtatg aaattatgca 180
 agacacagaa tacaaaacaa ttccttgaat ctttgaaagc tgaatgagaa gtcatttttg 240
 aggatgtaca accaattgca atttctacaa agtcatctgc tcttacacca aatgaccctt 300
 gcacaataac tattgaagaa aaactcaatg gtgctgttaa aagaaatcgt ggaattaata 360
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<210> 20541

<211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-F12

 <400> 20541

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 gcggagaagg aaaccgataa gattctaggt gtgcacataa tggcacccaa tgctggtgaa 180
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 acatgccacg cacaccctac cgtgagcg 268

<210> 20542
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-D5

 <400> 20542

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 ggcaggttcc aggggttcacc agctattatt acataccgtg ttcccacaaa gacagctctt 180
 caggaggcat actcaactcc catcttccca ctggatattc tcgctgagag acctccagag 240
 aagaagtttg aatgggctaa gaggcttgtg atgaaatacg ggtcacttgt gtctgttgtc 300
 tcttttgttg gactgtttat ctacctgtc gcgagcccgt cgaagagcag ctcanaggca 360
 agcaagaaga gacgctgac tacttatagg tcgcagttga cgggtgtagct ggtggttttg 420
 cctggaggaa ctctnggtag 440

<210> 20543
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-D6

 <400> 20543

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ttcgatttcg attcctttcg ggtcggattt gtggcgagc tcttgatttg ctccgtccct 180
gccagaggag gagggcttgc tggatcaggg atcgagcaag gaagcagcca tgagcggcgg 240
cggaagcgtg agtttctctg agatccagcc gtcggagctc gcattcccct ttgagataat 300
gaggcaaagc tcgtgctcca tgcaactgac caataggact gaccattatg taacattcaa 360
tgtcaaaaca accaacccaa aacagtactg tgtgcgtcct aaaattggtg ttgaattaac 420
ctgctcaact tgcgatgtta cagtgc 447

<210> 20544
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-D7
<400> 20544

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aaccggggtg ttcgccatgg tcaccggtgt catgaagaga agaaaccttg ccgccggtag 180
caacgacggg aactctgacg agcttgcctt ggaagttttc tgcccgggtg ttggcgcatt 240
acagcaacca attagcaagc agcaggactt catctccttc gtcaccaaga tcggactat 299

<210> 20545
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-D8
<400> 20545

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gccctcgccg tcgttccgcc tccggaacgg cagcctcaac gcactgcgcc tgcgccgcgt 180
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gctcgacgcg ctccggcctcg gcgccgaccg ctccggcctg gaggccgcgg ttggcgggta 300
catcccggcc ggccgcgcgg ggctccgctt cgacgacttc gaatccctcc accgcgcgct 360
cggggacgcg ctgttcggcc ccatgcgggt ggctgtgacc gaggacgacg acgacgaggg 420
ggacatgaag gaggcgttc 439

<210> 20546
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-E1
<400> 20546

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atttcagtcc cttatgggat ggctgtctgg tcgactggta ttggaactcg tccattcggtt 180
gtggaattta tgaaacaaat tggccaggcc aatcgccgtg tcttggctac tgatgaatgg 240
ctaagggtcc gtgaatgtga tgggtgtctat gcaatagggtg actgtgctac aataaaccag 300
aggaaagtaa tggaagacat ttcagaaata ttcagagtcg cagataaaga taagtctgga 360
accttgactg tgaaagaaat tcaagatata cttgatgata tctacgtgag gtacccgcaa 420
gtacagc 427

<210> 20547
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-E10
<400> 20547

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gaacatccac tcggagatgt actcgtgct gctcgagacc tacatccgcg acgacgtcga 180
gaaggaccgc ctcttcgcg ccatcgatac ggtgcccgcg gtccggcgca aggcggactg 240
ggccatgcgc tggatcgacg gcggggagcg cttcgccgag cgctcgttg ccttcgcctg 300

cgtcgagggc atctttctctt cgggctcctt ctgcgccatc ttttg

345

<210> 20548

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E11

<400> 20548

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gcggccaggg gcgagaggaa ggcgtgcgcc acgtcgctgg aatccatggt ggactttgcc 120
accgccagcc tcgggaccag ccacgtgagg gccgcgtcga cggtcgtggg gagggagggc 180
tcgccgaggg aggagtacac cgtgacaggc gtgaagcggg cgggcggcgg gcgcctggtg 240
gcctgccacg cggagccgta cgcgtacgcc gtgttcgctg gccacttgac gcagcagacg 300
cgggcgtact cgggtgctgat gcttggcaag ga 332

<210> 20549

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E12

<400> 20549

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cggccgactc ccgatcactc ccactctgtg ccagccgttc aaggtgctgc acggcggcgt 120
gtcggcgctg gtggcggagg cgctggcgag catgggcgcy cacatggcgt cggggtaccg 180
ccgcgtcgcc ggcgtgcagc tcagcatcaa ccacttcgcg agcgccgccc tcggcgacac 240
cgtcctcgcy caagccgtcc ccgtccacgt cggacgctcc acacaggttt gggaggtgaa 300
gctctggaag atggatccgt ccacgggagc 330

<210> 20550

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E2

<400> 20550

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gctgtgctga acagcaggaa gacgccgcag gcggtgggtg ccgtgctggt ggcggcgggcg 120
ctgctggctt cgtccgcttc ggcggcgatc acctgcgggc aggtggggtc gtcgctggcg 180
ccgtgcatcc cgtacgcgac ggggagggcc agcgcgctcc ccgcgtcgtg ctgcagcggc 240
gtcaagagcc tgaacagcgc ggcgcggacc agcgcggacc ggcaggcggc gtgccgctgc 300
ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcacc 345

<210> 20551

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E3

<400> 20551

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ggatgacgct tcgccggacg cagaaacttt accttgttcc tagaattccc aaatgagtgt 120
cgtcgtcgtc gtacaaatgg catgcatctt attgtaagtt ttggagtttg ttgttgacac 180
cgcaacgatg gaccgcctgt gatatcttta ataaatgtaa ccgcagataa taatgaaata 240
aaaagaacgc atggctattg tattatt 267

<210> 20552

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E4

<400> 20552

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agcggtaaaa cagcagccgc cacttgctt gctgtggcgc tgcactcctc ctcgcctgac 120
ctcactgtcc gaatcatcga tgagtcaccc ctccatctca ggcgcaacga tagctacaaa 180
gatatggttg tggagaaaaa cttgagaggg cttcttagat cagaagttga caggtctgtg 240
tcacgcgaca gcataattat tgtcgactcg ttgaataata ttaaggggta ccgctatgag 300

ttgtggtgtc ttgcgcgtgc atctggtgta agatattgtg tgaagtggac cattgtaagg 360
aatggaacag caaccgccag gagaaaggag aaccagcata tgataactaat atatttgaag 420
atcttgtaag tagatttgag aa 442

<210> 20553
<211> 242
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-051-Q1-K1-E6
<400> 20553

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ctctctcccc ttccggtttc nnggggttcgt ggttcgtgag gggttctccg ggggtgtcgg 120
tttcgtaggg gtgagccgga tcnngagatg gcngtngcgt cggatggggt gagtacctcg 180
ctgcnttttcg tcggtcggcc ctctgcctgg ggcccacgtg acccgaccac tttcccttcc 240
ac 242

<210> 20554
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-E7
<400> 20554

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ggaccaattc taaggatggg ccgcaccaac accacagcac gagtattgcg cttcgtcagt 120
ggcgttcccc ctctcaattg ctacagaatg cctactactg tcagacggca tgccctcgcc 180
tctcacagat catgaccctt cgaagcttag cctacagtac tactccaaga cttgccccat 240
cgtgcaacac cacgtccata ctgatataga ctacgtgaa cgctcctaca cgctctacac 300
catactcatt ctctactcc a 321

<210> 20555
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E8

<400> 20555

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ccgtgccatc tcgcgctgct cctgcccctg ctactgctgg ccttgccggc ggccacgcgc 120

ctggcgctccg acgcctgcgc ggtcgataag ttcccggcgg agcgtgcgta cgcgtcgtgc 180

gaggacctgc cgaagctgga cacgtcgctg cactggacgt acgacgcgtt caagagctcc 240

ctgtcggtgg cttacgtggc agatcccgtc agatgccgtc ggatgggtgg cgtgaggcct 300

gaacccatct gccgaatgca tggccggcac tcacgctctg gt 342

<210> 20556

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-E9

<400> 20556

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gcctcgctcc aagccgcggc caccctgatg cagccggcca agatcggcgg ccgggcgccc 120

tttgccctgc tgccgtccc cccgtcgctc caactcgcct gcagggcggtt cggcgtcgac 180

gccggcgccg ccaggatcac gtgctccctg caggacgtcg ccagcagggtg cgtcgacgcc 240

gcgaagctcg ccggcttcgc gtcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg 300

gaaggcacgc ccaagaggct gacctacgac gagatccaga gcaaaacgta catggaagtg 360

aaaggcacg 369

<210> 20557

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-F1

<400> 20557

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tgaccaatgc taaggatggg ccgcgccagc gccacagcag gtgtgttgcg ctctgctcagg 120
 gcgttcgccc tctgctggc tacggcatgc ctctctctgg cggccggcat gccctcgctt 180
 gtggcggcgc aggaccgctc gaagctgagc ctgcagtact actccaagac gtgccccaac 240
 gtggagcacg tcgtccggac ggagatggag tgcgcggtgc gcgccgacac gcgcaacgcc 300
 gcgtcatgc tccgntcca ttccatgac tgcttctgctc agggctgcga cgggtcgggtg 360
 ctgctcgacg acacggcaac catgatcgga gagaagcagg cggagcagaa cgtcaactcg 420
 ctgaaagggt tcgatctggt tgac 444

<210> 20558
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-051-Q1-K1-F10
 <400> 20558

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 tcgtggctgc ggccggctca ctgctgctgc tgcttgccgc gtcggcggcg gagctgacgc 120
 ggggtggagca cccgcccaag aacgaaggct cgctcgccat tcttgagtt ggcgactggg 180
 ggccgcgggg gcagttcaac cagaccctcg tggcccagca gatgggagtg gtggcggaga 240
 agttggacat cgacttcgct atctccacgg gcgacaaca 279

<210> 20559
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-051-Q1-K1-D4
 <400> 20559

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 tgccaaatcg gaattccttg atatatgggtg acctttatgg tatctacaaa gaagcatcca 180
 ccatatatag ggctactctt cgttacgaac gtttttagtga gataatggta acccttttca 240
 aaactgggtt ctctgatgct gcaaatcatc cactgctgca agatactagt cgttcaacat 300

atcatggttt ccttgatgaa ctactgaata atatctgcac aattaacacg gacttagata 360
 ttgaagcctc tgctggatac gatgatgacc tgatt 395

<210> 20560
 <211> 96
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-051-Q1-K1-F11
 <400> 20560

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 cgaccagacc cagttttagt caatgttttt cttttc 96

<210> 20561
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-C10
 <400> 20561

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 agcaactagc gtcgcgaagc cgctcgagccc caggcgaagt cacaggccgn cgcagcgggtg 120
 ccggcgccca ccgatccgc cgccgccgcc gacctcgtgc tcgcgcctcc ggtcggaagg 180
 aggggggtgtc aaacccatgg agcagcctgc cgctcccgat cggagcgtatt ttcccgccgg 240
 ggagtgcgaa tggcgggagg agctgcggca gcagcagtct caggtggacg cgctgcggga 300
 gcggctcgtg gaggcgaagg tcgggttgcg 330

<210> 20562
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-051-Q1-K1-C11
 <400> 20562

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gcaacccacc actgagaggc acgcagagga gcaggaagcc ggagaccaag atgtcgtcgg 120
 tgttcagcgg cgatgagacg gcccccttct tcggtttcct cggcgccgcc gccgccctcg 180
 tcttctcatg catgggcgca gcgtacggga ccgcgaagag cggcgtcggc gtggcgctga 240
 tgggtgtgat gcggccggag ctcgatcatga agtccatcgt gcccgaggtc atggctgggtg 300
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<210> 20563

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-C12

<400> 20563

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 gagaggctga gaagatgaag agcagcactc tgttggcgat cctagttctc caggcccttc 120
 tgggtctctgc ggccgtggcc aaaggacctg cagggccgac gacgaagaag cagtgtctgg 180
 gcggcgagtg caccagctgg tcgggcgtgt ggacctgca cgacctctc accaagtgcg 240
 ccgncacctg caagaactgc gtccccgtgt ccacggacaa aggcaccacc aagtacagat 300
 gc 302

<210> 20564

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-C2

<400> 20564

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 atccaggccc agttcatgtt ccagcagcag cagcagcaga ggggcctgca cgcggcgctt 180
 ctgggcccgc gggcgagcc gatgaagcag tccgggtcgc cgcgcgcgt ggcgccggcg 240
 ccggcgagtg cgaagctgta ccggggcgtg cggcagcgcc actggggcaa gtgggtggcg 300

gagatccgtc tcccgaaagaa ccgcacgcgg ctgtggctcg gcaccttcga caccgncgag 360
gacgcggcgc tcgcctacga caaggc 386

<210> 20565
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C3

<400> 20565

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actaatatca tagagcgagc aaagacgatt gcatttaagt ggaagtccaa gttagataat 180
cttgacattg atgctagcaa tgggaactgt cttgaagctc atgcgtttct tcaacttctg 240
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gtcagtcgtc gtcgtcagac acctgaactc tgtcgattgc ttgggttggt gcagaataag 360
ccagggtgtca ttgaagttct ggtggaaagt tgaagacctt ttgatgcaat taatttggct 420
tatgtgtatg aacttact 438

<210> 20566
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C4

<400> 20566

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agaagctatt caacctgaaa ggcattgctc ttggcaacct tgtgctggag ttctccaccg 120
acttcaactc gcgggccgag ttcttctggt cgcacggcct gatatcggac tccacctaca 180
acatcttcac gacggtgtgc aactactcgc ggtacgtgag cgagtactac cgcgggtccc 240
tgagcacggc ctgcgacagg gtgatgagcc aggtggcgag ggagacgagc cggttcgtcg 300
acaagtacga cgtcaccctg gacgtctgca tctcgtcggt gctcatgcag tcccagggtcc 360
tcgtccctca gcaagggagc agggagctgg acgtgtgcgt ggaggacgag acgatg 416

<210> 20567
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-C6

 <400> 20567

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 accgcggggc ccatggccgc ctctcccgcc cgcgcgtctc aattgctggg gtccgcgggc 120
 tcccgcctcc tctcggggcg gggcttcgcc gcggcagccg ccgcggcgcc ctgcgccggc 180
 gtcttcgtcg acaagagcac ccgtgtgacg tgccagggca tcacggggaa gaacggcacc 240
 ttccacaccg agcaggccat cgagtacggc accaacaatg ttggtggagt gactcccaag 300
 aaaggtggaa ctgaacatct aaggctccca gtgtttaact ctgtagcaga agctaaggct 360
 gaaacaaaag ccaatgcacg tggtatatat gttccaccac catttgctgc cgccgctata 420
 atggaagcaa tggaggctga gctcgacctt gtg 453

<210> 20568
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-C7

 <400> 20568

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 cacagaatga acctaacacg tacactccac ctaattccat atcataatag tagtctgggc 180
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 tatcttgggc caacaaatat atttaciaat gaaaaaatat tgcacaagtc taccgtccct 300
 caacctgaac aagatttgag gacacatggc agcagtcaat gcctctggct ctgcatctga 360
 cagagcctgg tggtgagagc ttcaatgtat gtgcgaagtc gatgccgacg ggatcttgct 420
 agagtcaaa 429

<210> 20569

<211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-C8

 <400> 20569

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 cacagtctca cgtttggtgt tgacctaacg aagattcggt tgatgggcat acttcagagg 180
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 gtagattctg ggtatggttt gctgaggaga taccgttacc aactgtttgt aggattggctc 300
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 ggagacacc 429

<210> 20570
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-D1

 <400> 20570

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 tctaggctcc atgtctaagt gggagccagt cacgtttcag gaatctctta gctttgttaa 180
 gaaagtaaag gcacgtgact acatgctata catatcattg ctcgatgtgc tcaaccggaa 240
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 cttgagaagc cattgaagtg ctt 443

<210> 20571
 <211> 361
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D10

<400> 20571

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atgccgagct tctaccacga ggcgacgccg tccccgaagg ccgagttcaa gaagctgccc 180

acgacccggc ccaagtcgcc caagctgggc aggaggaaga cggcctcgac ctccatggag 240

acgtccaact cgtcgtcgga gagcgagggc acgaggccgt gctgccgcgc cagccgcgac 300

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<210> 20572

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D11

<400> 20572

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aagaggggct acggaaaact gaacaagcag aggatccctc tgtctaacia ccaagtcatc 120

gaggagggct tgggcaagca caacatcatc tgtattgagg atcttgttca cgagatcatg 180

actgttggcc cacacttcaa ggaggcgaac aacttccttt ggccttttaa gctgaaagcc 240

ccgctgggag gtctgaagaa gaagaggaac cactatgtgg aagggtgtga tgccggtaac 300

cgtgagaatt acatcaacga gctcaataaa aggatgaatt aggttcacga ccaaactcaa 360

tgtggtctaa aaaaactttc tgggctctcc aattttacaa taataggaaa tggatgaata 420

tgccatcaag tttggtggtt 440

<210> 20573

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D2

<400> 20573

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caaaggagaa gggctggctg gatcagggat cgagcaagga accagccatg agcggcagca 180
gaagcgtgag tttcctcgag atccaccgt cgagctcgc attccacttt gagataatga 240
ggcagatctc gtgctccatg caactgacca atacgactga ccattatgta gcattcaagg 300
tcaaaacaac caaccagaa cagtactgtg tgcgtcctaa tattgggtgtt gaattccctg 360
gctcaac 367

<210> 20574

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D3

<400> 20574

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cggaaccggg gtgttcgccca tggccaccgg tgtcatgaag agaagaaacc ttgccgccgg 180
tagcaacgac gggaactctg acgagcttgc cctggaagtt ttctgcccg tgtttggcgc 240
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atggggcgga caggaaggt cggcacagga catcacggca gagcagccac cacggcgtct 360
gcacagcatc accgtccgcg ctggcggtgc cgtcgactcc atcgagttca cctacaccga 420
cgacgctggg c 431

<210> 20575

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B9

<400> 20575

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agctatggat aggcattggct gctccgaagc tgcgcagcct ggcgctggcc gtgctcctgg 180
cggcgaccgt ggtggctccc ccggccgctg tgctcgcggc gatgtcgtgt tccaccgtgt 240
acagtacgct gatgccgtgc ctgccgttcg tccaaatggg ctgggccatg ccgtccc 297

<210> 20576

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A2

<400> 20576

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taccgatggg gctgaaaata ccgcgcattg ttgatccatg tcgtggatac agcatcattg 120
gctttgggtga tacccttctt cctggctctt tagctgctt ctgagctaaa atacgatttt 180
tctgcaaaga atggcttacg gactgcttac agccagtggg caaagggtggc ctatggctct 240
ggactactaa tcacatatgt agccctgaac ctaatggatg ggcatggaca acgtgccctt 300
ttgtacatcg tgcccttcac tcttggcaca ttgatcgcgc 340

<210> 20577

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-051-Q1-K1-A3

<400> 20577

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tctcgcgcga tcgatacgat ggccgtcttc tccgacctcc acaccgccga cggcctcaag 120
tccctcgagg ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat 180
gacattaagg tcttcgcgcg ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc 240
cgctggtacg agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctgttggt 300
gtaaactctgc ctgcgggatc agtcctcgcg gcagctgctc ctgcggatga agctgangat 360
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424

<210> 20578
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A4

<400> 20578

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<210> 20579
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A5

<400> 20579

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cgagccggcc gctgaggtgg ccgagaaggc cagcgagtga ggccgtgcgc cgtacgcgca 180
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tgcccatgt gtgccgctgc 440

<210> 20580
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 20580

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 gtttctacc tgcacaacgt agccgacccg cctgtgatct accgcgacat gaaggccgnc 360
 aacattctgc tgggcgagga cttcagcccg aggetctccg acttcgggct cgcgaaggctc 420
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<210> 20581
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 20581

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 ctgggctgca ggtcagttaa tgcgcccgtg acaggcggcg tcggggaggc caaggcggt 180
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 gacggtgagg cgcggccatg gggggcgcca aggcggagga caaacggcc gncgctgcag 300
 aagattggtg ctaccaattt ggaaacaagg atgcatttga cttgaagccc ccgaaaaaat 360
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<210> 20582
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-A9

 <400> 20582

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acagtgatct tgaggtgaat cctgtgagaa ctaaagaact taaaaatc cgagcccctg 180
gaaaggatga aaatgtccgt ttgtctccac cccgattggt atgatatttt ctgcttttaa 240
tgagatcatg agagatggtg tttcttttct gtaaaagaaa cacaatacta caattcctaa 300
tcaattggtt aattgccac tgtaacttgg atcagcaatg caaattctag aaccattat 360
tggcatatga tattatgttc acacattggg 390

<210> 20583
<211> 349
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 20583

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gagaagacga ccgcaggtaa gaagcccaag tccgagaagc gcctgcccgc ctcgaagtcc 180
tccggcaagg agggcgccga gaagaagggg aagaagaagg ccaagaagag cgtggagacc 240
tacaaaatct acatcttcaa ggtcctgaag caggtgcacc ccgacatcg catctnctcc 300
aaggccatgt ccatcatgaa ctcttcatc aacgacatct tcgagaagc 349

<210> 20584
<211> 346
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-051-Q1-K1-B12
<400> 20584

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aaatgatgag atcatggcta ggggaacctt tgccaacatt cgtcttgtga ataagttctt 180
gaaggggtgag gttggacca agacaatcca tgttccatct ggggagaagc ttgcagtttt 240

tgatgctgct atgaaataga agaataagg gcatgacact attatcctgg ctgggtgccga 300
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<210> 20585
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B2

<400> 20585

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gctttatgca agctcaaacc aaaaattcaa gagtgggctc aatggcattc aggtggaact 180
gcaggctact gatgcaagtg aaatcagcct tgatgagatc aaggatcggg ctgcctaggg 240
atcatgatca tgcacatgg actcggccta ctactgtgga tttgtatgcc attatagact 300
tggtgctgtg aaagactgct tgatgatttg cgggggttgt gctgtgtaaa aaaaagtccc 360
atggcttcca gaagaccatg aaggttcgga tctatcatgt aattccttgg tatctgcca 420
ttatgtatgg actatggaca tgtg 444

<210> 20586
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B3

<400> 20586

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acgatttttt ttataggagg tgcgattgat atctggaaga ctgaaacgaa gcccgagcat 180
gactgtccga ggaatcgaga aaaactaata cgtaagattt taatggccca acattagagt 240
ctcccgatgat atcacctaaa ttccatcttt aaattcggtt tttatgggtt tctctaaaaa 300
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<210> 20587

<211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-051-Q1-K1-B4

<400> 20587

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<210> 20588
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B5

<400> 20588

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gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240
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agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaggtcgct gccgcggcgg 360
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acgccgagga ggccagcggc 440
  
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<210> 20589
 <211> 436

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-051-Q1-K1-B6

 <400> 20589

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 aattgcatag cctgcaatga ccatgttgca cttacgcacc ctgaccttga caaggagact 120
 gaggagttca ttgcagatgt gcttggggtc gaggtgttta ggcagactat tgctggaaat 180
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 tccgttgaag accttgacga gctctccacg ctctccaag ttctcttctg cgcaagaact 300
 gtgaacagaa gaagcgaggt cattgctgca agcatgacag tgaacgactg gactgccttt 360
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<210> 20590
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 20590

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 ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgccca agacgaaggc 180
 gtgcagctg gtggggcgct tctggccgc gtccgagccg gccgtgtccg tgcagctcgg 240
 cgaccacggc cacctcgct actccacac caaccaggcg ctctccgcc ccaggctcgtt 300
 cgcgccaag gacgaggtgt tctgctgtt cgaggggggtg ctggacaacc tgngtcgtct 360
 gagccagcag caggggtgt caagcaaggg cgccaacgag gtgctcctcg tcatcgaggc 420
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<210> 20591
 <211> 380
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A12

<400> 20591

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cctttcaatg ataaaggccg tattgtagaa gcaaaacctc tcgtttatga gtgtgggtcct 180

tcttgcaagt gccctcctac atgtcacaac agagttggcc aacatgggct caagtttcgg 240

ctgcaaactc tcaaaacaaa atcaatgggt tgggggtgtga gaactcttga attcatacca 300

tctggaaagc ttgtgtgtga atatataggt gaagtgttgg aggatgaaga agcacaaaaa 360

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<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G2

<400> 20592

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accttcgaca tcaactgatgc tacggactac ccgtcgctgc tcgaagatcc gccacagtat 120

gctgggggaga ttagggagca tcaactgggtg ctgatgggat ggacatcgat cgccaacctg 180

gccctgacgg tgcaggcata ctgcatctgc cataatgagc tgatggacat gacagttagc 240

ctggatgagt acgccagggc tgatctacca gctgcatgac tgcagctgcc tgtgggacct 300

acaact 306

<210> 20593

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G3

<400> 20593

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accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240
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ttcacctggg caccgatgcc aaccccatcc aagtcgtcgt cgacgcgatc atcaacagtg 420
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<210> 20594

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G4

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<210> 20595

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G5

<400> 20595

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cggcgcgacg tctatgtgcg tggcgagggg gctcgggaag cccctatgcy ccggcagcta 120
cacgacgtcg ctccggggcg tcgcgctcgc gccccgtcgt tcggcgggccc ggatggccgt 180
cgtccggggc tcgtccgcgc atcacgagca gcacccggcc aatgagtggg cggacgcggc 240
ggacgtggca gc 252

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<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G6

<400> 20596

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tcgagcccaa ataccgcctc atcaggaatg gtcttgctac taagggtgag aagtcgccga 420
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<210> 20597

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G7

<400> 20597

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cagatgtttg taggaattgc tgggtgagct gtggagatgg ttcactaggt gagccacttg 360
caagaagtga tggttatcag tgtggaaata tg 392

<210> 20598

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H1

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 cgagcctggg ctctatgag cctccgagg gataattggg aagatggaaa tctgctact 240
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<210> 20599

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H11

<400> 20599

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 gcagggccgt caactagtag aatgcgccgg tccgtcacgt cacgtcaacg ttgccacctc 240
 tttttttttt tttgcttatt tgtttgtttc catcgatcat cttgtttaca ttgtatttag 300
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<210> 20600

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H12

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 gcacgatggg ccccgtaagc atgcgaacag tcgccgtacg cggggagatc cgacggaact 180
 gcttggccag gatctaaaag aatgcgccgt gccaatagc cacctgaact gggccaacgt 240
 gccaaagaat tatg 254

<210> 20601
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-050-Q1-K1-H3

 <400> 20601

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 tacaagtgct cgcaccgctc ggggctgacg agaaaccctt caagccctac gagcccgctt 420
 tcgccatcgt acagatcggc tcgcatcaat tcaaggtgag caatggcgac 470

<210> 20602
 <211> 480
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-050-Q1-K1-H4

 <400> 20602

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 gttggagcct tctgatggct ctctctggct atatgcatag tggagctgct tatctgcatg 420
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<210> 20603

<211> 480
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-H6
 <400> 20603

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 ctcaacaggc ttgtgtccca ggtcatctca tcccttactg cctgcctgag gttcgatagt 420
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<210> 20604
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-H7
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 tgacttgtgg acaaagctga aattcaagga tgctgaaaga ctgcaggacg cttctgacat 360
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<210> 20605
 <211> 283
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 20605

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<210> 20606

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-H9

<400> 20606

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cgctggcgcc gtgcatcccg tacgcgacgg ggagggccag cgcgctcccc gcgtcgtgct 240
gcagcggcgt caagagcctc aacagcgcgg cgccgaccag cgccgaccgc caggcggcgt 300
gccgctgct caagagcctc gccaacagcg tcaagagcgt caacatgggc accgtcgcca 360
ccatccccgg caagtgcggc gtctccgctg gattccccat cagcatgtcc accgactgca 420
acaagatcag ctaagttacg acgac 445

<210> 20607

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A10

<400> 20607

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cgggggcacc ggcattctaa acaaccataa catctcaacc ctcacgtcac atgcattttc 120

cggtcaatac ttgcacaaac taaataactt acaaatatcc aacactatga aacccctcta 180
attctacgtc aacctccaca cacaataca 209

<210> 20608
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-A11

<400> 20608

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tagtataata actaatcaat gaaggaacag aaaccctgca ctgaaccaat catgtacagt 180
atgtatatgt acagccacac acacacatgc cgcgcacgat ccaccacacc cgatgcactg 240
cgccatccgt ctccgtctcc gtctcccttc cggcggggcc agacggtctc attgccgcct 300
ctccatgtaa tccaactata gtttcatatt atat 334

<210> 20609
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G12

<400> 20609

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cagcaagatc cagaaagaca tcgccaagaa ccaccaggtc cgcaagcagt acaccatcca 180
ggtcggcgag aacgagctcg tcttcaagga gctggagctg ctcagcgatg gggccaacgt 240
gtacaagctc atcggaccgg tgctgggtcaa gcaggacctc gcggaggcca aggccaacgt 300
caagaagcgc atcgagtaca tctccgcaga gctgaagcgg atggatcggg cgctcaaaga 360
cttggaggaa aagcaaaaca gcaagaagga atcgatattc aagttgcagc agaggatgca 420
ggctgtacaa gct 433

<210> 20610
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-050-Q1-K1-E9

<400> 20610

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 tgcttggact gtcccccag cgatgtcgat gccttcaaag acctgcaggt agcgatcaag 180
 tgcaagtccg gcgccgacga gggctacgag acgaaggcgc gtgccccct ggacgacacg 240
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 gactgcttcg ccagctccg cagctcgccc gacgacacgc cgtgcgtcgg ccaggccccg 360
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 ta 422

<210> 20611
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-050-Q1-K1-F1

<400> 20611

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 acctctacga cttggccgtg ctccggcccg tccagaccgc ggcgggcgcc gactgcccgg 180
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<210> 20612
 <211> 452
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F10

<400> 20612

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ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgccca agacgaaggc   180
gtcgcagctg gtggggcgct tcctggccgc gtccgagccg gccgtgtccg tgcagctcgg   240
cgaccacggc cacctcgcct actccacac caaccaggcg ctctccgcc ccaggtacgt   300
acgtacgttc gtgtactgct ggcaagcaag caggcatctt cttatcctcc atgggcacta   360
tcccctacga ctacgagtat tagtacttgt cggatctgtg ttggatctcg cgtgctcaag   420
caagccgact gagatcttct actagttctt tc                                     452

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<210> 20613

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F11

<400> 20613

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aaaccatcca ttgtcacaag tcatcatgaa acacggtaca gggaaggagg gagggaacaa   120
cgtctcagct ggatctatct ttttttatga gatagtacag agtagacatg ggctagcggg   180
acgcagcacg agaacgaatc cacaggaggg taaaaaaaaac cgccgctgct cctttgagag   240
gaggtcggtc catcagaaga gtgacgaggc gatcgcgagg accacggcga gcgcgacgcc   300
gccgctgacc ccagcccggg acttgacgcc gttgcccgcg gcgctgtcgc tcgcagggtt   360
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<210> 20614

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-F12

<400> 20614

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ctggagggggc aattcctgca tgaaggatgg cctctccgac agcacctgcc gccggagctt 180
ggtcggagggc ttctacgatg ctggggacgc catcaagttc aactaccca tggcctggtc 240
catgaccatg ctgagctgga gtgtgatcga gtacaaggcg aagtatgagg ccatcgggtga 300
gctcgaccat atcaaggagc tgatcaagtg gngaacagac tacatcctca naaccttcaa 360
ttcatctgct gacacgatag acaggattgt cgctcaagtg ggtgtaggtg acacctctta 420
aggcagcagt cagcctaattg acc 443

<210> 20615

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F2

<400> 20615

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cggttgccgc cgccgtcgac gcggaggacc cgctgatccg gcaggagggt cccggtggag 120
atgacaacga tctggagctg aacgcggagt ccacttcct gagcttcgtg cagcgggttcg 180
gcaagtccta caaggacgcc gacgagcacg cgtaccggct gtccgttttc aaggccaacc 240
tgccgccgcg gcgcggcac cagctgctgg acccgctggc ggagcacggc gtcactaagt 300
tctccgacct cagccggca gagttccgcc ggacctacct cggcctccgc aagtcccggc 360
gcgctctcct cagagaactc ggggagtcgg cgcacgagge gcccgctgctc cccaccgatg 420
gtctccccga cgat 434

<210> 20616

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F3

<400> 20616

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 gtcttgctgc accatgaaca tgtccatgca cccgctcccg gtgatgcca acaggcgcca 180
 cgctcgcatg gggggaagga agatgagcgg gggcgcgctt gcgaagctgc tcagccggct 240
 ggcagcagaa ggtcatgacc tctcgactcc ggtggacctc aaggaccact gggccaagca 300
 tggcacgaac cggtacatca ccatccggtg gccagccggc ggccacgttg aaacctgagc 360
 ctggaaaggg ggagagatca cacaaacg 388

<210> 20617
 <211> 495
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-F4
 <400> 20617

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 ctcggtttct tcacgtacga ggagaagcgg aagctcgagt acatcacagc agcgggagcg 180
 cctggggaag gactccatca agccttcga cgctgctgc ctctgcctca agccgctcat 240
 cgacccgctc tgetgcecca agggccatac cttctgcaag gagtgcctcc ttgagtgcct 300
 cctcgcccag aagaaggaca tcaagcgtaa gctagcagct cagcaggccc agaagaagca 360
 agagaaggaa gaggaggagg aaaagctaat tctgcagaag gctaaggagt tggatgcctt 420
 tgatcagcag aatcatgggg ctgttcccca gtaccatgat cgcagtgggt cccaaggcaa 480
 gaatgggttt catgg 495

<210> 20618
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-F5
 <400> 20618

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gcggcggtgg ctactgcggc ggtcgcagcg gcggcggtta tggcggcggg cgccgtgacg 120
gcggatatgg cggcggtggc ggctacggcg gtcggcgcgga gggcgggtggc ggccggctacg 180
gaggcggtgg cggctacggc ggtcggcgcg agggcgggtgg tggcggctac ggccggcgggc 240
gcagcggtcg gagggactga tgtgtggggc catcctggct tcggccgagt tatcttatct 300
atctatagta tcgtgttacc gtccgcttct gtcaccgtgt tagtgtccgg tctacctttg 360
gatacgtgtt ggtaccc 377

<210> 20619
<211> 457
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-F6
<400> 20619

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gtcgattttg acaaccctgc tcaggctaca attgctctgg aagcattaca aggttataag 180
tttgacgaac acgagcgtga ttcagcccat ttgcgtctgc aattctcacg ctttcccggc 240
ccaaggctcag ctggcggggc tcgcggtagg cgtaagacg tgcggacctc gtggttgccg 300
aacctatcgt ttatacgagc gatccaacta cggcgggcta acgcttcgat atgcgctgaa 360
tttcggggcg gtggcttttt agggttcgtc agctcatttc gtgaatgcgt gaaagggaca 420
atgcaataag tgatattctg ccatatgtta ttagatg 457

<210> 20620
<211> 212
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-F7
<400> 20620

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gagcccaata cccatgcccg tgggctcagg cacaggggat atgtaccaat ggtacaaact 120
ggggaagtct ctgtgggagt catgttgctg accatgatca tgtccatgct cctcgtctcg 180

cggattccca agaggcgcaa ggctctcatg cg

212

<210> 20621

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-F8

<400> 20621

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tgacgatacct tcagtgtctca aagataggcc attgtatgct ggggagattt tggatcataa 120

atgggtgcct attggatgga ataggatcgc cgagctggtc ctgagggttc agtcagactc 180

cagctgggag aatgagttga tggagatgag tgatagcgag gatgattaca ccgtggctga 240

tcttgacagct ccatactggc agcgccctgt gggacctact tgggtggtgtc atgtcaccgg 300

aggccatcct tcaatagatg catggttgaa tagcgctcac tggatgcatt ctgccatcag 360

aattgcactg agagatgaga gcaaactgat aagcgaccgg atgaagta 408

<210> 20622

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-G1

<400> 20622

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gacgtcgtc cggggcgtcg cgctcgcgcc cgtcgttcg gcggcccga tggccgtcgt 180

ccgggcgtcg tccgcgcac aggagcagca cccggccaaa gagtgggccg ccgcggcgtg 240

cgttgacagct gcgctggtgc tggccgaggt cgccgaggcc gagcccggga tctcgccggc 300

actcaagaac t 311

<210> 20623

<211> 348

<212> DNA

<213> Zea mays

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<400> 20623

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tgcgcaagat gggccgcgtc ggcttgcgaa cggacgccat ccgcggctag atccgcctga 180
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ctttttgttg ggcaaacatt attggtttgc tgcaataaat catatggatg acattggatt 300
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<210> 20624

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E7

<400> 20624

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tacaacgcgt gtgcgtgagc gccggagtgc cggagctgac gtgctgttgg cgatgtgccg 120
tgtgggactt acccgcgag aactacttcg tccggctgga cccggacggc atcatgtgcc 180
tggcgggtccg gagcaccg cgacaccggca tgtacatcat cggtaaactat cagcagcaga 240
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ccgaggcgta gtgtatagac gccggcgagg ccttctgaga ctgagaggac gaacaattcg 360
aacttaaacc tcgcttgatt gattggattg ggaggcaaat tgggagtaga aatttttaggt 420
tgggaaggac ggtggaacgt acgcaagctc tgctacatag ttt 463

<210> 20625

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D12

<400> 20625

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acttcgacag cgtcgcgccg aggcgcccgg ccaagccgcc gcgcagcgac ccgtcgggtg 180
acaccttcgc ggaacccgcc gccgtcgacg ccggggacca cgacttgccg gagctccgca 240
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tggatggcgg ggaggattac gtggagacgc gatactacga tggcctcata ggcatcgaca 360
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tcagtgtgat gactaac 437

<210> 20626
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-D2
<400> 20626

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gccgagaaga cgaccgtcgg gaagaagccc aaggcgagga agcgggtccc cgctggcaag 180
tccgccggca aggagggcgg cgagggcaag cgtggcaaga agaagggcaa gaagagcgtg 240
gagacgtaca agatctacat cttcaaagtg ctgaagcagg tgcaccgga catcggcac 300
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ggcg 364

<210> 20627
<211> 135
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D3
<400> 20627

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ggcaagcaca tgggattctc aagtgttaag caggcatgct gaatgtctgg agctggagga 120

gttgactgca atatc

135

<210> 20628

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D4

<400> 20628

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ccattaaatt gcaagggtcaa ggtgggcaat tttcaaaatt tcaaccttaa ggccaaaaat 180

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aagtccaaca agaattgctt gaaggccaaa 270

<210> 20629

<211> 488

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-D6

<400> 20629

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ctagtgacaa gtttgagttc atagttcaga agagaggcgt ccacgcgttc tgcttcacga 180

acaaatcccc atatcacgaa acgatagact tcgatgttca tgttggccat ttttcatatt 240

tcgagcagca tgccaaagat gagcatTTTT caccactttt tgagcaaata ggcaagttgg 300

atgaggcaact ttataatatt cagttcgaac agcactggct agaggcccag actgaccgtc 360

aagcaatatt gaacgagaac atgagcagga gggcagttca taaggcgctc ttcgagtcag 420

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agctgggg 488

<210> 20630

<211> 177

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D7

<400> 20630

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 acttccctgc ggagaactac atcctacggc tgtaccgga ctgcatcatg tgccctgt 177

<210> 20631
 <211> 200
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D8

<400> 20631

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 gttacattgc actgagaaga catcagacat ctgcttcgat ctatgaaata attgctatat 180
 tacgaatatg ccaacctacg 200

<210> 20632
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D9

<400> 20632

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 atgagcccaac tcccgcccc caccaaggcc atgacaccct ggcagccgca gccggtcacg 180
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449

<210> 20633

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-E11

<400> 20633

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ctactttctac tacggcgggc ctggcaagaa ctggaactgc ccgtgactgg tgctttctaat 180

gtgtagtggtg aagtgccgtc accactagca aaatgtaacc caagcgttca ggttcgctta 240

tacagcgtca atctgcatct ccttggttcag tcctagctag gtagtggtga acatgtgcat 300

gtgctctcta gactctaattg ttttcttctt cttttcattg tattttcttc ttgtgccatg 360

taaagtttct gaagagaagg agcatggctt gaggtctgng tgggtggttg ggctggctcg 420

tggtgacctc tactgatttt tg 442

<210> 20634

<211> 439

<212> DNA

<213> Zea mays

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<400> 20634

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atcttggtt gccgcaaata gtacaaaact tgaaagctca agcatggact gatgaggatc 180

tgtagatgc tttgaatcaa ctgaggtgg gactcaaaga aaacctcaag aagttgagtt 240

cctttgataa gtacaaacag caagttcttc ttggatcatc tgactggtct ccaatgcaca 300

aagatccaag tttctggcgt gagaacatta acaattttga agagaatgat ttccagattc 360

tacgagttct catgacaatc attgacacat caagtgcac caccgctctt gccgtggcct 420

gctacgacct ctcacagtt

439

<210> 20635

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-E2

<400> 20635

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ggagcccagg atggggcata tcagcaggga gcccatgatg gggcatataa gcagggtgct 180
caagctggag catacaacta tgcttatgat gctggcacgg cttatgcata tgcaggttac 240
tctggctatc cagttgcagg ctacgcgcaa agtgcagtgc ccaactattc ctatgctgca 300
cctncgcagc caacaagcag cgggtgcagct acgaacgccg caggaagcca gtatggggca 360
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<210> 20636

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E3

<400> 20636

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gtggaaaagca gctcttctcg tgcttctca gcagggatgg atattaaggg ggttgccgtg 120
gaaatacaaaa aagacaaaaa aacaccactt gtgcaaaagg tattcacagt agagtactct 180
ttaatttgta agatacatga gtatgcaaaa cttatatat gcttgatgga tggagtgaca 240
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ctcctagcca tgctgaaaaa tggattggc ctgttcccag atgttggtt tgcttacatt 360
ggtgcaaaag caccaggaag ggggtgcagtt ggaagttacc ttgggattac tggaaaaagg 420
atatcatcac ctgctgatgc tatgttcat 449

<210> 20637
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E4

<400> 20637

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 ctagattaca tccagcgcca catcgctact cttaaggaat caatagactt gggatcaaat 120
 gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatggttcgc cggcttcacc 180
 gaacgttatg gcattgtcta cgctgaccgc aacaataact gcacgcgcta catgaaggag 240
 tctgccaaagt ggttgaaaca gttcaacgcc gcgaagaagc ccagcaagaa gattcttacg 300
 ccagcttaga aaatcggggc ctcatgatgt ggggtgcagcc cataaaaaac tgggtgtgtgg 360
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<210> 20638
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E6

<400> 20638

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 agggctcata taatgcagtt agagagggct ttaaaggctg agatggcaaa gcaggaggag 180
 aacaaaaagg tcataagtga agagcaccag aggtcaaatg aacaaataga aaatttgaac 240
 tacaagcttg caagctgtat gagtgcactt gaatcaaaaa atgtggagct gctaaatctt 300
 cagactgccc ttggacagta ctatgctgag agtgaagcca aggaccgact tggagggtgat 360
 ttagctgttg ctagggaaga actgtctaaa ttgtcagagt cattaaaggt ggcaaatcaa 420
 accattgaga tttcaagaag ggaaaaggaa gatatggcta ccaaactttc ac 472

<210> 20639
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D11

<400> 20639

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aggtggcgag gaggaggagg acatgcggga ggcgttccgc gtgttcgacg ccaacggcga 120
cgggtacatc accgcggacg agctgggcgc ggtgctgtcg tcgctggggc tgcggcaggg 180
ccgcaccgcg gaggagtgcc ggcgcgatgat cggccgcgtg gaccgcgacg gcgacggcag 240
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atgggtgacc gtcgccggcc ggtgctgcct gcctcctgct cctgcacctg ggcctggcca 360
tggagcgccg ggcaccttat ttctgcatct gcgtgcttga tttcgtgtgc tagaaagaac 420
ctgtagatag atattgcttg ctcggagcga ggggggagct c 461

<210> 20640

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B9

<400> 20640

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ttgcctcgcc aggggagccg gagccgccct tcgcgccgcc gatgccggcc gcgttccagg 120
actaccgcgc gggcgccgtg gccgtggggg tgggagcgcc gttcgggggg gccagcgtgc 180
acgggcaggc gatcgacgcg atgggcggag gcgacgggca gcgcgagcag agcatggcaa 240
tggcggagga cggggaggag ccgccgccgc ggcggcggca gccggcggga ggcgccgccg 300
tcgccgacgt cgagagcagc cgcgggttcc ggcacatgat gcgggagcgg cagcggcgcg 360
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<210> 20641

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C1

<400> 20641

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gcgtgctcga gacggccgaa gccgggttga tcgtgctgcc cgagcacgac tatcaggtgt 120
tacggcgcag gggcgacgat caatacggat tttgatccac ggggaggaaa ggtcgatgtc 180
gatattcgag attgcgagtt ggattgcctt ggggacagtg ccgattacgg cgctgggttac 240
ggtcgtgcgg tcgatctaca ccgggaactg gatatggacg cgattcctgg tgctgcccgt 300
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caacctgac 370

<210> 20642
<211> 455
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-C10
<400> 20642

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cttaactttc gaagaaatca tggatgaggc agacaaaata aagaacacgg gtaacagact 120
gtttaaagaa ggaaagtgc aacttgcaaa ggcgaaatat gataaggtgc ttagggaata 180
taaccacgtg catcctcatg atgatgaaga ggggaaaatc tttgctaatt caagaaattc 240
cctacatcta aatgtagctt tttgctacca gaagatgggt gaatacagaa aatccattga 300
aacatgcaat aaggtgctgg acacaaatcc tgtgcacgcg aaagctcttt accgccgagg 360
aatgtcctac atgttactca gggaatttga tgatgcgagg aatgattntg agaagatgat 420
ttaccgtgac aagtcacag aaccggacgc tacag 455

<210> 20643
<211> 449
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-C11
<400> 20643

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gtgcgtattg ggcgtggttg gccgcgactt cgcgctggtg gcggccgaca ctccgcctgt 120
gcagagtatt ctcgccaca agaccgacga ggacaagggtg atggtgctcg actcgcaaaa 180
gctgatgggc gcttcagggg agcctggtga tcgggtgcaa ttacggagt tcatacagaa 240
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cttcacacgc ggcgaactcg ccacagccct tcgcaagaat ccatatatgg tcaatattat 360
tcttggtggt tatgataagg atgttggtgc tccctctac tacatcgact acattgcaac 420
cttgcaaacg attgacaagg gtgcttttg 449

<210> 20644
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-C12
<400> 20644

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cgtaggtcatg gctggtgtgc tcggtatcta cgggctcatc atcgccgtca tcatacagac 120
gggatcaac cccaaggcca agccctacta cctctttgat ggctacgcc acctttcgtc 180
cgggcttgcc tgtggtctcg ctgggcttgc agctggcatg gccatcggca ttgtcgggtga 240
tgctggagtc agggcaaagt cgcaacagcc aaagcttttc gttggcatga tctcatcct 300
cattttcgca gaagcgttg ctctctatgg tctaattgtt ggaattatcc ttctgtctcg 360
cgctgggcaa tcccgggcgg attaatgca ccaccattct gtgattaccg naccggttat 420
tatgctattc tgag 434

<210> 20645
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-C2
<400> 20645

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cctcggccag cgcgacacca aggagtggac gtccgacgcc aaggcgcaag aggcgttcaa 180
gcgcttcggc gcgcgggtga ccgagatcga taaacgcgtc gttaccatga acgcggaccc 240
tgggtctcaag aaccgcaacg gccctgccga gtgccactac acgctgctat accgcaacat 300
gtgctgcacc tagggcgata cctccggaat caccgccaag ggcatttcaa acagcatctc 360
cattagagtg ctgtctgatc tgaagacgta 390

<210> 20646

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C3

<400> 20646

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tcgatgggggt cgtcagtga gaaggcggta gtggcggact ccactgtact tcctggtacc 120
atacgggtggc ctacttgctc attggcgctg ctctagctcg aacctacctc gtgcactgag 180
caccttgcca tgaacaccag tgccaattct gatacattct acggaagga tgacagacac 240
gctggagatg acgtactatg attgaatcgc agccgaggat tcgactatct acggtcgcca 300
ccgtacttct tatcgagctc aaccaaaccg gtcggtattg tgaaacagat gtactacaga 360
tcttctatta cgaacagtgc tcatgacggc aaacatgtca tgcactcatg ctccagga 418

<210> 20647

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C4

<400> 20647

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gcgcgtattg tctaccactc gatgacgctt cctcctattc gcctcgcgaa atcctgacgc 120
tcaacctgac agacaacacc ttctcataaa ctgccatgcc aaatgctgta caaagccaca 180
agctgaaact attccacctg gaaagaacgc tccatttatt gttgacacat tccgatggat 240

ctatcattat agtgtcacat atttgggttat cgagacttat ctcgtgaaga ctgagtccac 300
 ttgcggacta ttatccccct gacgcatctg aacat 335

<210> 20648
 <211> 173
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-C5
 <400> 20648

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 ggccaattaa agcaaattaa ctctgggtact gatacattcg actacaatat aatccaaaaa 120
 tacttacggc aatattactt gccacacaaa gcacacatat agctatgcaa aaa 173

<210> 20649
 <211> 465
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-C6
 <400> 20649

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 tggacaagct tgacactgtc ttttcctgcc cattctgcaa ccacgggagt agtgttgagt 120
 gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt caggaaaact 180
 tcagcacaac tgttaatgca ctactgagc ctattgatat atatagttaa tggattgatg 240
 agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc cccatgcgat 300
 gaaactgtta cctacaatcg taatgtaatg tgctgggtatt ctgcaatgcc atagcccata 360
 gtcagccatg gcttgggaata acgtagtggc tgaccgatat gccagtaggc accttatcta 420
 gtacttacag aactacaaaa agtttgtact atacatatat ggaca 465

<210> 20650
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-C7

<400> 20650

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agtgggtgtac tccagtgtga cttcctgcta ttctcatggg ggcctatctg cacactggcg 120

ctgctctagt ccagacttac ctgaagcact gaccaccttg cgaccaaaca ccagagtgc 180

ttctgataga ctactatgga gacgctgacc ataacgggtgc agatgacaga ctctgaatta 240

atcgacagacg taaatgcgct tatctacatg cccacactga ctccatatct agc 293

<210> 20651

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C8

<400> 20651

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gtcattgtta aagatggcat gtattggcta cttctcgatg aggcttctc ctattcgtct 120

cgagaaatcc tgacgtcaa cctgacagac gagaggttct caaaaattgc catcccagat 180

gctgtaaaaa gccacaagtt ggaactattc gagggggaag gaaagctccg tttattgtcg 240

acacattccg atggatctag caatatagtg tcagatattt gggtagcgga cttggctcgt 300

gaagactggg tccacttgca gactatcacc cccctgacgc atctgggcat aagcccgttt 360

ttccagctca agacgaaggt cttcttcggc aaccagaaga gactcctctg cgtagatctt 420

caggacggta cggtttcata catcaacatg ccttcgggtg agactttga 469

<210> 20652

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-C9

<400> 20652

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tacttaccaa gaacaagaag ttgggtgtgt tgaattctgc atgcagtcac ttttcaggaa 120

ccttaatgtt ccattgaatt accagtattt acatgctagg tgtcaatggc tatctaaatg 180

gacataatgt tcaaatatta cttgtgaaag actgatacta caaatgcatg cagatctgca 240
aaggaattca tctctaaciaa ggccttacat tggttcgata ttcgggtccac caggcatgga 300
ttctaccatg gaaccaaacg gaagggacac tcacatgcac acagtttcat ctggtgaccc 360
aatgattccc taaccttcag tgacgtctgg tctcagcaaa tttacgaact aaatcagcat 420
gcgaaacg 428

<210> 20653
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D1

<400> 20653

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cgcgtgggac ctgcagcaga agcagtggga gtccgcgcgc ggcggtggca aggcggcggc 180
ggagcgggag atggcgcagg cgcaccgccg ccaccgctcc ctcgacgagc tggcggggga 240
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<210> 20654
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-D10

<400> 20654

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acttcgccaa gtaccaggcc tacgagctga tccatgccag atgggccatg ctcggtgccg 120
ctggcgctgt catcccagag gcgtgcaaca agttcgggcg taactgcggc cccgaggccg 180
tctggttcaa gaccggcgcc ctgctcctgg acggcaaac cctcagctat ttcggcaaca 240
gcatcccat caacctggtg gtcgccgtga tcgaggaggt ggtcctcgtc ggccggcgccg 300
agtactaccg gatcatcaac ggactggacc tcgaggacaa gctgcacccc ggtggcccct 360

tcgacccccct gggcttggcc agcgaccccg accaggccgn catgctcaag gtgaaggaga 420
tcaagaac 428

<210> 20655
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-B6

<400> 20655

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atggacattt ggaagtccaa ggtgttgccc aagatcaagc tcgtcttcgt caagagcgcc 120
ggcaagaagg ccgccgccgc tgccgagctc gtcaagtcct tcgacgagtc caaggagggg 180
atcgatggcg agttccagga gaagaaggct gatctccagc ccaaggctgt cgagatctac 240
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aagaagaact ccgccgcaat caccaagttc ttcgaggagc tggccaagat cgaattccct 360
ggagccaagc aagtgagega cggcatctcc aaggccggcc cggccctgct gtccggcccc 420
atcttcgcca cgttcgagaa ggtctncacg ctgctccctg tcgtcgc 467

<210> 20656
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A2

<400> 20656

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cggcaacgag gccagtccc gcggcgcccg tggaggcggc ggcggcgggc ggtaccgtgg 120
tggccgtgga ggcggcggtc acggcggttg cgggcgccgt gatggcgggc gcggctactg 180
cgggtggcggc ggctacggtg gtggctgcgg cggctacggt ggtgggtggc gctgctactg 240
cgggtggcaac cgtggcggtc gctacggcaa ctctacggg aactggaaga actgagcggc 300
ggggcccgcg cggccaagtt atcctgttcg ctaccgtgtt gtttacccta gttcagagtg 360
gttatcttcg ttctgtctgt gtttgttggt gcccatctgt gttattgatt gaaagtcgct 420

ctgtgtcagt tgtagtgct

440

<210> 20657

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A3

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gatctgaagc aggtgaagaa tgattgggag gtggtaccca gaagctacgt gagactattg 120

aagaaagtat atccgttagg agtgaagcac aagagaagca catggagtac caggaagaga 180

tgaagtccca ggaggaaatt cttcatgggc taattgagga tattcacatg gccacagagg 240

atcaagaaaa gcagtttgag aagttgttgc aggacgagcg ctcaaaggcc agacgctttg 300

atgttgattc tggaactatg aaagatcgtc agctaaggga ggaatatgtg cagaagttca 360

ttgattgccca agtcaagggt gtggcaaagt ttgaagttga 400

<210> 20658

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A5

<400> 20658

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tggcgccaat gttgtgcac ctggctacac caagggtgat ggccttggcg ctgagattgt 120

tggcaccttc atcctagtct acaccgtctt ctcagccacc gatgccaaga ggaatgccag 180

ggactcccat gttcctatcc ttgccccact gccaatggg ttgcggtgt tcttggtcca 240

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<210> 20659

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-A6

<400> 20659

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gagcaaaggt ccggcgagcc agagcaatag ttaacaacca tctccacaaa caggctacca 120
cgtagctacg tatatgccgg aactgaactg agctgagaaa gctcaggcgt gaactgaact 180
agatggtggt tcttgccatc ctcccaaggt tggccgtgctg attgctcttc acgttctacc 240
gcgccgccag gaagctcagg cgccacgcct tccagctcta caaccgtagg accgncgcca 300
agccgnccttc gttctccgtc tcccagcagc aggcgggtgc cgncaccttc aagaccgacg 360
ccgncattcc tgacgccgnc ggccggaccg tegtctgtga cgtgcacg 408

<210> 20660

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A8

<400> 20660

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cctgcccccg gccgccatgg acatgagcga tgcggagcgg ctgttcttct tgcagatggc 120
ctgcaacaac tccgaggtcg cgtacgagca gaacccaac gacgccgaca acttgacgcy 180
atggggcgga gcgctgctgg agctatcgca gctgcgtaac ggccccgaca gcttcaagct 240
cctccaagat gcggaagcca agctggagga ggcaactgcaa attgatccca acaagtctga 300
tgcaactctg tgettgggaa atgctcagac ttctcatgga ttcttcactc cagacactgc 360
aattgcaaat gagttctttg cgaaggcaac tgaatgtttc cagaaggctg ctgatgtgga 420
acctgcaaat gagctgtaca ggaagtcatt agacttgtca gcga 464

<210> 20661

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B1

<400> 20661

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gacaacatga ttgagaggtc caccaacctt gactgggtaca agggcccaac cctacttgag 120
gctttggact tgatcaatga gccgaagagg ccttcagaca agcccctgcg tctcccccta 180
caggatgtgt acaagattgg tggatttga actgttcctg ttgggcgtgt tgagactggg 240
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tctgttgaaa tgcacatga ggctctccag gagggccttt ctggtgacaa tgttggtctc 360
aatgttaaga atgttgctgt gaaggatctg aagcgtgggt atgtggcctc caactccaag 420
gatgaccctt ccaagga 437

<210> 20662
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-050-Q1-K1-B10
<400> 20662

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tgagcgggtca acaggagact gatcggctgt tgcggcctga gtatgcgtgc ctgagccaaa 120
aagatccatg gcgtgcccga gacgactgta acgtgggagc gctcgtatat ccacaccagg 180
cagcacctgc tagagaggta catgacgttc gggatcaaca tgcaggacta gctgaacgcg 240
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aacgacaaca acgagttcag cgacaagtac cagcagtgga taatgcagaa gcgaagcgca 360
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gc 422

<210> 20663
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-050-Q1-K1-B11
<400> 20663

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tcgctgaaga agctcaagtg ccggacgctg atctttgttg gagaaaactc acagttccat 120
gcgacgctg tccacatgac cacaagctg gaccggagat actgcgctct agtcgaggtt 180
caggcttgtg gttcacttgt cacagaagag cagcccatg cgatggtgat cccgatggaa 240
tacttcctca tgggggtacgg gctctacagg ccatcgagc aggaaagcag ccccgagagc 300
acactgagcc cgttctgcat atcacccgag cttctgtcac cgagagcat gggagtgaag 360
ctgaagccca tcaagacgag catctcgctt aacgttttagc atgggtggat ctcgatggc 420
catggcttga caaccacagc tcagct 446

<210> 20664

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B12

<400> 20664

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ggcgctcgc ctgctggcgc cgggggcccgc gacggcgtct gcggcggtga gctgcggcga 180
ggtgacgtcg tcgggtggcgc cgtgcctcgc gtacgcgatg ggcagcgcgc cgtcgccctc 240
cgcggcgtgc tgcagcgggg tgcgctcgt caacagccgc gcgtcgtcgc cggcggaccg 300
gcaggccacc tgcaactgcc tcaagagcat gacgggcccgc ctggcgccgc gcgtcagcat 360
ggccaacgcc gccaacatcc ccggcaagtgc cggcgtctcc gtcggcgtgc ccatcagccc 420
caccgtcgac tgcac 435

<210> 20665

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B2

<400> 20665

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cttagtcggt gcaggcagga ctgatacagg tgttcatgca tggggtcagg ttttaataaac 180
 atactgcata actgtatact gaagcttaaa ttgatatcta tcatctgggt tgcgtatcct 240
 gcactgttaa atgtcaatat tatgttttat atgaaatact gggggattac atacaatatt 300
 tgttggtttc aggtggcaca ttttactaca cccttcagtt acagttgcct cagtagtatt 360
 cattctgcaa tgaatggact ccttcctcct gagattcgag tcagggaaat tagtgcagca 420
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<210> 20666
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-B4
 <400> 20666

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 ctgccctgcg gttccgaacc ggcgaacctt gcattgcaac aacaactggc tccaaggggc 120
 gggcgatcgc tggaagcttc ctccagccggg ttcttaaccg caagggcggc ttggccagga 180
 aggccctgca cgccttggcg taccacaaga acctggaaga cacatgcgcc cccggtgtct 240
 tcccgacaaa atgataactcg aagccccgag agcccacaca agctctggag cccacaccaa 300
 aagaccggcg tgttcgcccc cgcggcgggtg gaccccaatc tgacacctgg tggcgcgccg 360
 cacgccggcg cgaatgctcc aaaaggcacg gtgctggacc acaagggtgtg gttccgcccc 420
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<210> 20667
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-050-Q1-K1-B5
 <400> 20667

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gatctggtga atttgacgtg gcaaacaagg aagtttagcaa cattatagca gatggatatc 180
 cgggtctcaca gctgatggca cagtttctag atgcgattgt tagcgcggaat gatattccag 240
 atgatcaaaa ggcaaggata tgtaaaaagc ttgggggaaac tgataagtgc ttggttgatg 300
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 acatgnccgc gacgctgggc ttctaagagt tcata 395

<210> 20668
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-050-Q1-K1-A11
 <400> 20668

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 ccgtgagctg ccacgatacg gtctagaagt tgggtctgacc aactatgctg cagcctactg 180
 cactggtctt cttttggctc gtcgtgttct caagatccgt gatttggatc aggagtatga 240
 gggcaatggt gaggccactg gtgaggactt ctctgtcgag ccagcggaag agaggaggcc 300
 tttccgtgcc ctcttagatg tcggccttat taggactact actggaaacc gtgtcttttg 360
 tgccctcaag ggagcttttg atggtggtct agatattcct cacagcgata agaggtttgc 420
 tggcttcaag aaggatgata agc 443

<210> 20669
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-G12
 <400> 20669

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 tgatcagatg ctctcgccgc ttttcggtgc cggcgggcga tcggcgtgga gagcgggcca 120
 gcacggcggc ggcggcgacg cggtgacgag gcagatactc aagtgcacga ggtggcagct 180
 cgaggagacc accgacttcg tcacctgccc ctaccactac tactgcgaca gtcctaccc 240

gggcgactac cccgccgccg tcggcgccct cgtcgccgcc ttccgccgct actgctttct 300
ctccactctc gcgttcaccg tcctcgacct cgtcgcgngc aacggtagca gcgccttctc 360
gtcgtcgtcg gccggcgta ggggcatcaa gaggaagtag ctgctccctt cgggcccgtt 420
cctgctccct ctggtgctgc tcgc 444

<210> 20670
<211> 225
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-049-Q1-K1-G2
<400> 20670

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tggggtgagt cgcaggtagt tacaccctgc taccgagag caaaagcggc cccaatagaa 120
acctggaaat tgagttccag tggtaaaca aataactgca tacctacata atttaggcgc 180
cctctgtaag ttgaagatcg atgagtttga atggtttctt ggttt 225

<210> 20671
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-049-Q1-K1-G3
<400> 20671

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ctgcccaggc acacataaga tggcccctgc gacctctct atgccatcga cgagtagaga 120
aaaacagtga gcgccatcag taccaagcca tgggtgtgag aagctagcat gctccgcgac 180
gccatctccc acctctgacc cctgtggact ccctcaagcc caagcgcggg acaccttcgc 240
gtgctccatg gtcgcgcgcg ccaggccttc tccatcggtg gagcccggcg tagctccctt 300
ggccgcggtc tgccgtggag ctgcacctgg ctccgcgac gttctttacc ttccgtaacc 360
cgctgacgcc tactgtgtac gcggcggaat atggactcca tgcgggcggg ggcgaaggat 420
ctgcgcgagg acacatgtca tccgaaaagc 450

<210> 20672
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-G4

 <400> 20672

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 ggagcaggcg ggaaggcgaa gaagggcgcg gccggggcgca aggccggcgg gccgacgaag 120
 aagtcggtgt cgcggtcctc caaggccggg ctgcagttcc ccgtcagccg cgtcgggcgg 180
 tacctcaaaa agggccggta cgcgcagcgt gtatgcacgg gtgccccgt ctacctcgcc 240
 gtcgtcctgg agtacctcgc ggccgaggtg ctcgagctcg ccggcaacgc ggcaaggagc 300
 aacaagaaga cgcgcattat tccgcgccac gtgcttctcg ccattcgcaa cgacgaggag 360
 ct 362

<210> 20673
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-G7

 <400> 20673

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 aatgagcgtg ataccgacga ctatgatgtg tatgatattt tagtttgact cttgagttat 120
 gcatgaattt aacccaagc tatctagaaa agtttttttt ccctttgaaa ttcttctttg 180
 ctctccttcc tactggatca aattactttt tatgacaaca aactgcagct ttctctttcc 240
 ttttcttttc ctgcttcacc gcgacgataa ttgtgaaaat attttagcta cgtggacatc 300
 aattatccac aacatctttg atatttataa tat 333

<210> 20674
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-G9

<400> 20674

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tggacatggc tcgcacgcaa tctgccgtag cggtcgccgt ggtggccgcg gtgctgctgc 120

tggcagcggc ggcgacgacc tcggaggccg ccatcacctg cgggcagggtg agctccgcca 180

tcgcgccctg cctatcctac gcccgcgga cgggggtccg cccctccgcg tctgctgta 240

gcggcgtcag gaacctcaag agcgcgcgcca gcaccgncgc cgacaggcgc gccgactgca 300

actgcctcaa gaacgccgcc aggggcgtca gcggcctcaa cgccggcaac tccgtcagca 360

<210> 20675

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-H1

<400> 20675

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agacaggaca atccggctgt cgacagaaaag gggcgtgaga ccgacgacga tgatgtggag 120

gatatttttag tttgactctt gagttaggca tgaatttaac cccaagctag ctagagaagt 180

tttttttccc tttgaaattc ttctttgctc gccttcctcc tggatcaaata tacgttggag 240

gacaagaaaac ggcagctttc tctttcgttt tctttgcttg cttcaccgcg acgataatgg 300

tgaaaatatg taagctacgt ggacatcaat gatccacagc atcgttgata tatataatat 360

agagagaaaa ttctctgcac ggtcaatgca gntctatccg gt 402

<210> 20676

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H10

<400> 20676

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tgaagtacca caggagttgg tagaaaagat tgggaagggtg tttgagacca tactggaaga 120

gactggcaaa ttgaggaag gaaccaatga agatatgtct atcgcaaagg ccattgcaat 180

tgttatggat agaaatccac agttgaggca agaagggatt gctcatgaag ttcttcagtg 240
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 ctgggatcag gaggtgctgc ttccagggtg ccatggcctc atgggttcgtg gatatcgccc 360
 agttataaat actcttgcaa aaggcttaaa tatacgccctt aaccataagg ttgtggaaat 420
 tgttcgccac cggaac 436

<210> 20677
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H12

<400> 20677

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 cactgacata ttgagggaaa gcaccaatga aaatatttct attgcaaagg ccatcgcaat 180
 tgatatggat ataaatccac aattgaagca agaacggatt gcttatgaaa ctcttcagta 240
 cgattcgtgc cgtatggaag gatgggttgc cactgacgca cattcaattt cactacaggg 300
 ctgggatcaa gaagtgctgc tttcatatgg ccatggcctt atgggttcgtg gatatcgctg 360
 agttataaat actct 375

<210> 20678
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H3

<400> 20678

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 ccgagcgtgg gaaatctccg ccgcatgga gacgctggcc agcgccatgc ggcgcgagaa 120
 ccgcgggtcc aaggccccgc ctttctcctg tgccttctcc gccctcgcct cgggcagggg 180
 cctctcgtc atggccttcc tctgctgcct cgctggctc tacgtcgccg gccgtttgtg 240
 gcacgacgcg cagacccggg cgatcctgtc cggcctctc gagaagagct ctaccagcgt 300

ccagaaagtg ctctcgggtg aagacatgct taagaacctt gggt 344

<210> 20679
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-049-Q1-K1-H4

<400> 20679

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aagcatgagt atgggtcaga ggcagatgtc catgaaccag agatatttgt tgatcatgat 120
gtatacctgc cacctgcccc aagccatcat gatgtctatg gccagttttg ctctggagggt 180
attgtattgg cttctcgaga tggaaagatt gtgtttgaga gtacacttga cgcaagacta 240
gaagttgttt tccgcaagaa attgccagag atccggaagc ttcttttttg ccagactgca 300
gcctaatacga ctcatctgcc gatggtacgg ctgcttctat gtaatggttg ccggctgcac 360
gcctgcactg cagccataag gaactccgcc tgtttttgtc aaattgattg ttttaaggatat 420
tcatcccccta tgtacaaact acctnatggt tcattat 457

<210> 20680
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H5

<400> 20680

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gtgtatttta aagtctcccg aatgaagtat ttagatcgaa acggtgctca aacctttgat 120
ccaggaacta aactgctac tttaaagctt caaccccagc ctacgtcagg gtacctttgg 180
aaaggtcctg actttctctg atatcctgtt tctccgtcaa ctactgcctt tgaaagtact 240
cacaaacccg tttgaaattg cccgatctca ttttgagaag ttgttccatt ttccc 295

<210> 20681
<211> 447
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-H8

<400> 20681

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gcagtactgc gaggcctncg cctcgctctc ccgcaagtgc accgctgcat ccgccctcga 180

tggagagagg aagaagcaga agctctccga gatccagtcc ggcgttgagg aagctgaatc 240

gctgattcgg aagatggacc tggaggcaag gagcctacag cctagcatta aggctggttt 300

gcttgcaaag ctgnaggagt ataaatctga cctcaacaac gtcaagagtg agctcaagag 360

gatatctgcg cccaatgccg ggcatnngct acccgaggga ggctctggag tctggaatgg 420

ctgatactct cgcggtgtct actgac 447

<210> 20682

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-H9

<400> 20682

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cgattctgaa tggcgtcttg ctgcatgaat ttggttggac atggatgatt atggttgtga 120

agcggaagga ttgtaaatct ggtggctacc ctggtgagga cattgtagga tcacagcaga 180

ttcagtaaca tcaaaggcta ctgaaaagtt ttactgtgca gatctgattc aatatttgtc 240

agttatcttg ttgggcaaac atttttgctt tgctggaaaa ttggggaggg aggttggtgg 300

gggcgccctg cagtttcaag gcaacaacct cagcagtcac caacggtcga ctccatttgt 360

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<210> 20683

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A1

<400> 20683

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tgacgtatga gaacccatct acacagggtt gtgcttggcg tccatggaat gtttgtttga 180
cttcaccgat agaattgctg atatgtacca tgatttccca gttcatagaa tcaactatca 240
aagaggacaa acagggttgg tgatgagag 269

<210> 20684

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-A10

<400> 20684

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agtcttgga gacatgctgc tactactggc ggcagggccc aatacagaca tcccagcggc 180
gagctacgca tacggaacgt ccgtaagtgg cactaatcca aggcaacgct acgggcagcg 240
aggtatacta ttccaacaat gtctacaatg gagtgaacta cttcaacaaa acaaatctct 300
ttggatacat acca 314

<210> 20685

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-G1

<400> 20685

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cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccattct tcaaccacca 120
caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtggtcac 180
cgccaccggc gagggcgagt acgagaggtg caagaaggag gagaaggagc acaagcacia 240

gcagcacctc ggcgaggccg ggcgccatcg cgccggcgcc ttcgcactct acgagaagca 300
cgaggcgaag aaggaccccc agcacgcgca caggcacaag atcacggaag aggtcgctgc 360
cgcgggcgcc gtcggcgccg gcggctacgt attccacgag caccacgagg agaag 415

<210> 20686
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E2

<400> 20686

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gttccatggc ctccaccttc attggcaact ccacgtccat ccaggagatg ttccggcgag 120
tgagcgagca actcactgct atgttcagga ggaaggcttt cttgcattgg ttcactggtg 180
agggcatgga tgagatggag ttcaccgaag ctgagagcaa catgaacgat ctggtgtccg 240
agtaccactc ctaccatgat gccactgctg a 271

<210> 20687
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E3

<400> 20687

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gctctgaacg tagcagctgc tgagttggtg ggtcgaccga cgacatgagg tcttcggagg 180
aaactctgct tggttggtac caggcgagcg gtgacgactt ttagatgtcg actatccttc 240
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tgtcactccg attgtctcgg acgtgtcggc gtcatt 336

<210> 20688
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E4

<400> 20688

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ggccgggata agcttgcttt cttgatgttt ggtctggata ggtggagatg gaggccgtcg 120
atggatcgga gtcagggaga ggcttaaatt cttgttgtgt tttttaaca agggactggc 180
cttgttacaa ctctgctact aggttgagc ctggaggag ggacgatgat ccatcagatg 240
ggctatgtta ctctgtagat catctagatg ttaattaggt ctcttgtgca atgcagctca 300
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<210> 20689

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E6

<400> 20689

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ggcggcggag gtagaggcaa agggatgacg cgcgggaagc agaagatcga cgcgacgcgg 120
cgtaacgcgg agcgaaacca gaaatccaag ggggtctcagc tcgaggcccc cgccgtcggc 180
ctcaagatcg tctgtccat ctgcaaggta caattggcaa atgaaaaaca gctgaccgat 240
cactatggat caaagcatcc aaaggagaaa cctccgagca catcgagcac cgaataacca 300
tggctggctg tgacgcagaa atatagatcc tgcttggtg gtttgaggat ctttaagtcc 360
gtctgatcca tgctgggac ctcaacgtca gttatatact ctctagtgtg tgcattttct 420
cttgtttcag gtattgtgtt gtcgtgctgc caatgtgtc 459

<210> 20690

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E7

<400> 20690

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caggagcagc aggccaacgg caacggcgag cagaagacgc ggactccga ggtcggccac 180
aagagcctgc tcaagagcga cgacctctac cagtacatcc tggacacgag cgtgtacccg 240
cgggagccgg agagcatgaa ggagctccgc gaggtcaccg ccaagcacc atggaacctg 300
atgacgacct ccgccgacga ggggcagtgc ctgaacatgc tcatcaagct catcggcgcc 360
aagaagacca tggagatcgg cgtctacacc ggctactccc tcctcgccac ggcgctcgcc 420
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<210> 20691

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F1

<400> 20691

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tagggttgta gttaattgta atgagctgaa tcagcctatc ggagaagagg caggagtcct 180
tgcaaaattc cttggcatgg ttgctaagaa tggctccttg tgtagcttaa gcttcaagga 240
ttggagacta cttataggaa agaaagatag gaaccataaa caaatcaata aggaggccat 300
tcttaataca gtaaagaaga gattttcttta cccttgccgg acggaacat gggtagctgcg 360
aacaatttga gagagatgga ggcaaca 387

<210> 20692

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F10

<400> 20692

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ggagatagtg acaatttgcg tgatcttata actgctataa cagatttcac atcactagcc 120
acttagcatt tgcactgatt tacacactaa tcctaaac 158

<210> 20693
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F11

<400> 20693

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cctagcctta cgccgacgag gggcttcctc taatcgatct ggtgtctgtt ctgtggtatt    120
ggtctgggtg cactccaggg ccaggagcag ctagccgtct tcgttcgata cgttcgcacc    180
ccccaacgcg gttcgatttg caggaaggag cgtgatggcc aagacgagct cgttcaagct    240
ggagcacccc ctcgagaaga ggcaatctga ggctaaccgt atcagagaga agtaccctga    300
cagaattcca gtgattgttg agaaggctga gaggagtgat attcctgaca tttaacaaga    360
aaagtacctc gttcctgcag atcttacagt cgggcagttc gtgtatgttg ctaggaagag    420
aatcaagctc                                     430

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<210> 20694
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F12

<400> 20694

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atgaagcttc atgcatggaa gctcgagcat atctttcaag atttggcatc tagctaccta    60
cacttactcc taggatcaga ctctattaat ggatgtcgta tccgtcctgc gatctgtgtc    120
taaatt                                           125

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<210> 20695
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F2

<400> 20695

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cgctcctgct cctcccagcc gcagctggtc gggcgggcgg cggctctggc agcggcgctg 120
ctgctgctgg cggcgggggc cgggacggcg tggcgggcgg tgagctgcgg cgaggtgacg 180
tcgtcgggtg cgccgtgcct cgggtacgcg atgggcagcg cggcgctgcc ctccgcggcg 240
tgctgcagcg ggggtgcgtc gctcaacagc cgcgcgtcgt cggcgggcga ccggcaggcc 300
acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgctcag ca 352

<210> 20696
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F3

<400> 20696

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ctgcacgcag ggctccccgt tggagcgtcc aaagatgtcg gaggtgggtga ggatgctgga 180
aggtgacggc ctggcagagc gttgggacga atggcagaaa gtagaggtgg tgaggcagga 240
ggctgagtcg gcaccgttcc gcaatgactg gatcgtcgat tccacgtaca accttcgtgc 300
cgtgagagct gtccggtcca aggtagtagc cactccatga ctccgaagaa agaattcaac 360
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ttgttagcga cagtcaatat gaagggatgt tttt 454

<210> 20697
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F4

<400> 20697

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acatccttat catgtgtatg tgttatcata agatcattca ccctgttaaa ctacatcata 120
accttcccc aatattaacc ttaaatacct ttctatttca caaacaata actgtatacc 180
tacataatt 189

<210> 20698
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-F5

<400> 20698

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 tttgatttgc cttatcttga agcaaaatat aacgcatgca cgactactaa tcttagacca 180
 gccatatoca tgcaggaggc cctgaaagca ggggttttct ccaacgctcg gtctacgcag 240
 tctcttccaa gtactagcat tccgacgggg catcctctcc ctcagcaatt agcacatcac 300
 ccttactctc agccgactgt agcacccatc acacatttcc caaatatcgn tggctatccg 360
 ccgtatttgc cacaaaacta tgctgcttac ctatcttcgg gcacctttca gcangcata 419

<210> 20699
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-F6

<400> 20699

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 ttcacctgta acctcgaagt cgattatggg tctgaagaac atgcatacat agtctacaga 180
 acgtatgcat gcgacaagga cttgaagcct gacaagggtta acacgctcat gacactctca 240
 tgcttcaage tgctagtata ctgactagcc atgcagtcce tcatccatca agccatcatc 300
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<210> 20700
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-F7

<400> 20700

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gagggctgca catggcgaaat gcatgcatcc gagtcatctc gtaacaagaa atttgtgac 180
aagaaaatga cagatgagca tacatgtgga ggaggaaatg gagaaggta gcgctgagcg 240
acaagacaat ggctgaccac tgttattaag gagaagctgc atgataatcc gatgttgaag 300
ccaaaggacc ttgtcaagga aatatatgaa caatatggag ttacactgac ttattcacag 360
gtctggcgag gtaaagaagt agcacagaac gaactgtatc atgctatcan ggagacttac 420
a 421

<210> 20701

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-F8

<400> 20701

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cagagcgaga gagcgatggc gctgactaac ttcacgtga cgggtggcgt ggttggcgcg 120
gggggtgctt ttttaccac cgacatccgc aggtctggcg cctcttccg ccgcaacgcg 180
cgccagctcc ggcagtggct cgaggaggac acggcctccg ccgctccaa gtctgcaaaa 240
gaagcagctc aaaagaaact cgactcgacg gtccccaagg agaagcaaaa ggaagatagc 300
cactgattgg agctgtttat atgaacggta taaccttat ttgaagtcgt tcaagttctg 360
ttttctacag ttgctgcgat acaaacttgt agctctcaag taaggtgcac ggcaggatta 420
tgtntcccg ttaacatcng nctctgtgga acagctagct aa 462

<210> 20702

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-F9

<400> 20702

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cgagagagtc agaaatggca tcacctcata gctgctttcg cggctggcag agcacgagcc 120
acgtcgcagt tgcgctggtg tccgtgctga tcctgagctc ggcacgtctc tccgcgggcg 180
gcaggagcct gctggagctg tacaagccgc cggccagcgc gtcctgacg taccacaacg 240
gcgccgttct gcagggccgc atcccgtgtt ccatcatctg gtacggccgc ttcacgccgg 300
cgcagaaggc cgtggtcacc gacttcctcc ggtccctcac caccgccgcc gnetcgcgcn 360
cggcaccgtc cccgtccgtg tcgcagtggg ggagca 396

<210> 20703

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C4

<400> 20703

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tgaatggcac aagccatcga tagattgatt catccactga tgacgataca tgcttctggg 120
cttagtttac atcgaccgtt ttcagcaggc agccattgac attga 165

<210> 20704

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-C5

<400> 20704

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agagaagctg aggcctagcg ccgcacccgc cgccgcatca gccatcagcc atggcgctgg 120
ccgctcgctt cgtctcacgc tcccgtcagc tacattcggt tcaagcagct tttgcgaatg 180
gaggtgtcac tcaagttcgc tcctttgcc aaggatgcagc tccagctgac cgtcctcctg 240
ttagtgggga tgatctcctg aagggcatat tctttgaggt aaagaagaag tttgagacag 300

ctcttggcgt ccttaaaaag gaaaagatca ctattgatcc agacgacca gcggcagttt 360
ctcaatatgc ccaagtcagc aagactgtaa gggaaaaggc ggatcttctn tctgattctc 420
aaaggattaa atataccatt gagaccttca caggggcatn cctgatgcac 470

<210> 20705

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C6

<400> 20705

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ccgctcgctt caggctcacg ctaccgacag ctacatacgg ttcatgcagc tatcgcgaa 180
ggaggtgtca ctcaagtccg gtcctttgcc aacgatgcag ctccagctga ccggcctcct 240
gttagtgg 248

<210> 20706

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C7

<400> 20706

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cgctacattc ccaacggtca cggtgctata aacatgatcc accacttctc tatcgactag 120
aacatcgaca ctattcacat gtagcttgag aacaataact acttctacct ttgccataaa 180
ctgctcgact accagactat gctcttcaaa gaatgcatca tc 222

<210> 20707

<211> 219

<212> DNA

<213> Zea mays

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<400> 20707

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gcggtgtgta aagattaagg ggggtggaat aatcggttga taggcagctg gaggaattt 120
tgtaggcagc tgggtactggc aaatatgctt tgtagcacgg catcatatga tcaaacgggt 180
cactaagaag agtgcagtgc catttatatc attgtatgt 219

<210> 20708

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D1

<400> 20708

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gccatcgctt acaagcccga cgtcgacgtg gagaagatca agttccacca cttctccttc 120
gaggagacca ccgccacgct ccacctcaag ctcgagaaca agaacgactt cgacctcggc 180
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aggcccaagg acttcggatc cgctgtctgg gacatgatca ggggaagggg cacgggatac 360
accatcaagg gaaagatcga tgtcgacact cccttcggca acatgaagct 410

<210> 20709

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D10

<400> 20709

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ctgcacaacc tgcattggtg ggcaacaagg tgcaatgac ctcagctgac agacttcac 180
gagagtgagt tcttcgagga gcaggtggaa gccataaaca agatctccaa gtatgtcgcc 240
cagctgagga gagtgggcaa ggggcacggg gtgtggcact tcgatcagat gctgcttgag 300
gaagaggcct aaaaagaaga acggacagat gaatgaagga aacaagtgtg taatgttgat 360

caggcggagg aataatgggt caactgacaa ctctgggtcg gtggatttgt agttgggttg 420
 ggtttttttag ttgt 434

<210> 20710
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D11

<400> 20710

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 ggagatgcgc tgtacgctat tttgctcact ctggccctgg aaaagctgct caatgaaaag 120
 ctgcacaacc tacatgggtg ggcaacaagg tgcaatgac ctcagctgac agacttcac 180
 gagagtgagt tcctcgaaga gcaggcggaa gccataaaca agatctccaa gtatgtcgcc 240
 cagctgaaga gagtgagcaa ggcgacggg gagtggcact tcgatcagat gctgcttgac 300
 caagatgcct aaaaagaaga acggacagat gaatgaagga aacaagt 347

<210> 20711
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-D12

<400> 20711

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 attgttgcca agaataagg tttggacaag gacacaacta caaaactcac aatttacact 180
 gtaggtggtg ttttgaagaa tctgacagag ggccccctga gtgttatgga taagcacata 240
 tatgcaggac aactgtcaa accatttccc agcctgattg aagctggaaa gactggttgt 300
 ttcacatct caaatatatt tgctaaagg gttgaggctg gagtgggtga caccggcaac 360
 aacaaaaata aagttccatg tgcattggcta ctttgcttca tcgaanacaa ggctaactgt 420
 aggatttatg gagagtg 437

<210> 20712
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-D2

 <400> 20712

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 aatacattat acaaccttta ctaccaaata tcctttgtta tacttttctca tattatcata 180
 ctaatcacta tcaatattac accaccattc ttataaaatt acgcatgctt tataacttaat 240
 ccaactcttc ttct 254

<210> 20713
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-D3

 <400> 20713

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 ccggcctcag gatgaagttc gtcgccgtcg ccgccatggc cgccgcgctc gtggcggtccg 180
 ccgcagccgc cgaggcccc gccccggccc ccgcctccga cgcc 224

<210> 20714
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-D4

 <400> 20714

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 ctgtagaaac tgtgttcgat aaagatagta ctaacctgca tgaagatgac aagagaaaca 120
 ctgagagttc agaagcggaa ggacaagtca acagtggaga tagtaatata taagctaata 180

ataataagaa tgaagatgaa accaccagtc ttgtagaagg acgcatgcat gataactgaat 240
ccaactctgc tgctgagagt aaaagtgaag tcaattcaac tggagatgaa ttgtatcaaa 300
acaatcatgc acaggaggac aacactaggg aggcaagtgt aatgtctcat gatgaattag 360
cgcatggtga cgaatcaacc agtgcattgt gaacttggaa tggatcatat ggagaagggtt 420
agaaaagggg gcagttgata ctcaaactga ttatg 455

<210> 20715
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D5

<400> 20715

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tacttgatag aagcatgtgc taagtatgat gtgaaatgtc cacctcccca aacgacatca 180
cggttgcttg acaagttagt tggtcatttc ttggaggaga catgtgtgaa tccaacattt 240
atcatcaatc atccagagat aatgagtcca ttggcaaagt ggcatacgtc tcgacctgga 300
ttgactgaga ggtttgagct attcgttaac aaacatgagg tgtgcaatgc atacacagag 360
ttaaacgata ctgttgtgca gagacaacgg tttgaggagc aactaaagga tcgataatct 420
ggtgatgatg aagctat 437

<210> 20716
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D6

<400> 20716

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gagagttcag aatcagaagg acaagtcaac agtggagata gttatacaga agctaataat 180
aataagaatg aatatgaaac caccagtctt tttgaatgac gcatgcatga tactgaatcc 240

aactcttctg ctt

253

<210> 20717

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D7

<400> 20717

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ttgattttct tcaagatacc cacgctaaga gcaatggctc tataccataa gatctaccct 120

gtgatgaata cgcatacaca ctttatataa ccatctctct aaaaatatat ttaatctaca 180

cctccataaa ccacatcac 199

<210> 20718

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-D8

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gcttggtctt ttgaacattt ccttcacccg tatccaaaag attctgaaaa gctaattgtta 120

tcgagacaaa ctgggttgac aagaagtcag atttcaaact ggttcatcaa tgcccgtgtc 180

cggctgtgga agccaatgat cgaagacatg tacaaagaag agattggtga agcggagcta 240

gactccaact cttcctccga caacgggcag cgaaacaagg acaaagcacc atcttccgag 300

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<210> 20719

<211> 445

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-D9

<400> 20719

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 gttgcacgta gacgggattt taaactaatc gttacatctg caaccctaaa tgctgacaag 180
 ttctccaagt tcttcggagg tgtgcctgta ttccatattc cgggtcggac tttcccagtt 240
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 gaaattgagg ctacctgcta tgcgcttgct gaacgcatgg aacagntaat atcgtcattc 420
 accaagacta ttccaagct agaga 445

<210> 20720
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-E1
 <400> 20720

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 agcaagatgt cgtggcaggc gtacgtcgat gaccacctgc tgtgcgacat cgaaggccag 120
 cacctcagcg ccgccgccat cgtcggccac gacggcagcg tctgggcaca gtccgagaac 180
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 cctggagttg tcatccgagg aaagaagggc actggaggca ttactatcaa gaaaactggc 360
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<210> 20721
 <211> 254
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-E10
 <400> 20721

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ggcgacaaag ttcgtggcat acgccaacc gttactcttg acggggtacg ttatgtggac 180
 acccagggtt ttaagccggc gacttaccag ttaccatagc ttgacaaat aagccaactc 240
 taggcgacat ccca 254

<210> 20722
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-049-Q1-K1-C3
 <400> 20722

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 ggggtgaggg caggatccgg cgcgcgcgtg accccatacg tggacgagtc cgtcgctatc 120
 gacgtaaacc cagacaacaa ggacatgtcg cctgagttcc tccggtggct ccgcggaagg 180
 aatctgtcga gcgacgaccg gactatgcgc ctcaaagaag gatacatcaa ggagggcagc 240
 accgtgagcg tgatgggcbt cgttcagagg aacgagaacg tgctgatgat cgttcctcca 300
 gccgagccca tctccactgg ctgccagtgg ggcaagtgtg tcttcccgac cagcctcgag 360
 ggccctgtcc tgagatgcga ggacacgtct ggccctggacg tgataccggt ctagctagag 420
 aggggtggttc tggcgaatcc tctggcgcgg aaagggagta gaaaaaaaaa gat 473

<210> 20723
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-A7
 <400> 20723

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 tgccgtgcac agatagaatg gtacaaggcg ctgttcgacg cagagatggg gtactacgac 180
 gcgttcaagc agcggcggtc gcccaggaag tacaccaagg tgaacttaaa ccgcatcaag 240
 ctgggccagt tctgggaccg agtgctgagc atgctcgacg ccggccagct cccccaacgat 300

ttccaccgcc gcgccaagtg ggtcaacgcc tcccgtttct accagctcct cgtcgagcct 360
 cttgacattg ccgactacca ccgncacggc caccacctga cgagcgggag ctacatgact 420
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<210> 20724

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-A9

<400> 20724

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 tacacgtacg acgccgagtc cgacaaggac ctgccatggc tgcgctgcaa gatctcgtcg 120
 ctggtgcccc acggcaagga cagcccgccg aggtcatcgt cggcgaggaa ggcggcggcg 180
 ccggtgttcc cgctcgccct gaccaagggc caggtggtgg aggtgccggc cgtgcctgtg 240
 ccggccaagg acccggggaa ggagcagctg ctggtgatcg agggcatcga gtacgacccc 300
 caggcgaaca ataagttcga cgtcgccatc aacctgcccg cggacaaagc gttgcangta 360
 ggcccacagt acaaggagta c 381

<210> 20725

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B1

<400> 20725

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 gttgtcttgc gggtttggtg gatccaggac aaagcctgga agaagcagtg agacgagaaa 120
 catgggagga aactggtatc gaagttgggc aagtcgttta tcacagttct caaccatggc 180
 ctgtttggcc aaatactatg ccgtgtcaac tgatgggtggg cttctttgct tatgctaaat 240
 cattggagat aaacgtggac aagcaagaac ttgaaaatgc ccattggcac aac 293

<210> 20726

<211> 431

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B10

<400> 20726

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 agcttggcat agctcggaag gttacaatct caagttcctc gacgaccatt atagcagatg 120
 ctgctagcaa agacgatatc caggccagaa tcgcgcagct gaagagagag ctttctcaga 180
 cggactcgac gtatgactct gagaagttgg cagagagaat tgcaaagctt tctggtggag 240
 ttgctgtggt taaggttgga gcatcgaccg aggagagct agaggaccgc aagctccgca 300
 tagaggacgc gaagaatgag acttttgcag caatagagga aggtattgtt ccaggaggcg 360
 gtgcagcgta tgttcatcta tcgacattcg tgccggctat caaggagacg ttggatgatc 420
 ctgaggagcg c 431

<210> 20727
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B11

<400> 20727

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 ggagagtgtt agttgactca ggaggcatct gacgtaatga aacttaactt ctagaccctg 120
 atggtcacca actctatgat caaggctaga tcccatacct caatagatta cgttattagg 180
 ctcaactcaa ctattgcatg tcagagtacc tacacagaat accatcccat gctcatatac 240
 tatgggtaaa ttctgatgga tgataccact tagcaaagc 279

<210> 20728
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B12

<400> 20728

tcgatcctga atgacacgct ttctaaccct aatttctctt atatctcgaa gctgcccag 60

gaggggggagt gttagcatac tcactaggcg gccttcgaaa ataacctcaa cgtcattacc 120
 ctgatgggca ccaactccga tategaggcg aaccacgac cccttactga aactttacaa 180

<210> 20729
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B2

<400> 20729

caatatgctg actttccttc atccgcacat tcacgagctc ctgtgcaacc gaaccactaa 60
 cacggagcac aagttcgttc ttaactacac gaacaagcca atcatcttct ccattttctcg 120
 cctcgaccat ttcaacaact tgacttttct tttt 154

<210> 20730
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B4

<400> 20730

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 agctcgggcy gcagcaggca gccatcatgt ctgatgataa gcaccaccac ttcttcaacc 120
 accacaagat tgacgaggag cagcccgcg gctagtacgg gtactccgag accgaggtgg 180
 tcaccgccac cggcgagggc gactacgaga ggtacaagaa ggaggagaag gagcacaagc 240
 acaagcagca cctcggcgag gccggcgcca tcgccgcgg cgccttcgca ctctacgaga 300
 agcacgatgc gaagaaggac cccgagcacg cgcacaagca caagatca 348

<210> 20731
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-049-Q1-K1-B5

<400> 20731

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gatagagcca ggagaaagcc tggaagaggc agtgagacga gaaacatggg aggaaactgg 120
tatcgaagtt gggcaagtcg tttatcacag ttctcaacca tggcctgttg ggccaaatac 180
tatgccgtgt caactgatgg tgggcttctt tgcttatgct aaatcattgg agataaacgt 240
ggacaagcag gagcttgaag atgccagtg gcacaaccgc gaagatgtca agaaagcgtt 300
aacgtttgct gaatacaaga tagcccagag aacaagtgct gccaaagtcg atcagatctg 360
caagggcgct gagaaagga agagcccctc tgccgacttc aaagttggaa gcngcgagcc 420
tgctccaatg ttg 434

<210> 20732
<211> 182
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-049-Q1-K1-B6
<400> 20732

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ggtagaacca gaagaaagcc tggaatttat tttttcacta gaaacatggg attaaactag 120
tattttattta gtacaagaca tttattatat ttctcaacta tggttctgtt aaccaaatac 180
ta 182

<210> 20733
<211> 464
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-049-Q1-K1-B7
<400> 20733

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gcaggcgag gcacaggcac aggcgtcgga gaagccgtcc accacggcgc cgagctatgt 120
cagcgagtac gtcggcctac gaggcggcgg cggcggcagc gccctctcct gcaccaactc 180
gtcgagcgcg tccgacgccg agctcttcat gaagtttggc gaggtgatct cgcgagcac 240
ggaatagtcc aatagatgga tcattttgtg ttacagtta caataggtgt ctgccgcct 300

gtgatgtgat gtgactcgct gtaaatatcc tgctgccttc tcgttgggac tccactaggg 360
 actagtagct attntttctcc gttatgcacg tctctctctn tnttttgctg ggaaaaatcga 420
 actgtaacta aacgaatgga tttatgtgca ggctgcgttt actg 464

<210> 20734
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B8

<400> 20734

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 caccataggg caaccacgct taaccgatga tgcggcatta ctcgttgctc tgattattca 120
 gcattcgcct ctgtcttatt tctagtgtc tactttgctg cgtatattac catctttggg 180
 aggactgtcg gattaaatcc agaacctgta taacactcgg gaaagtgtgc ctaagacctg 240
 atgggtacct ggaatggtaa aggtcgcgcg aagtggattc cagcgcattg gacattgct 299

<210> 20735
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B9

<400> 20735

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 cttggtagtt gttatttggt gtttatttgt gtttataagc acaatgtata gcttgggtcc 120
 ctgctgtatt tgtttattta ctaggctgaa aacttgaaca tcttggattg gcagattagc 180
 acccttaatt tattgcaa attgcaaatca gttcacagca tttgcctagc tgtaatgagt 240
 attgattagg tgccccaca acaacttgct ccttgtgctt accggtcgtg actattgagg 300
 tgccccact aacaattttc agtattgggt ggttccactt ccataatgct acctccatat 360
 gttaagtttt ttgttcatct atgactataa atgggtttttt aatcacactg tggttggcat 420
 tcatatgt 428

<210> 20736
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C1

<400> 20736

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ctgcccacgg cegtectect acccacagcg tccgccgccc gccggctagc gcgtctcccc 180
gcgcgcggac gcggcgaccg ggacggggga tgtggaggcg ctcagggccg ggggtgtccgt 240
gtacaagccg cggtcctacg acgtgctcgt caccgacgcg gctcgtctcc tcgcctgcgc 300
catcgacgac ggcaagaccc ggctcgagat cgaattcccg cctctgcaa gcagcatctc 360
ttcttacaag ggctcctcag atgagttcat cgatgccaac atccagcttg ctctcgttgt 420
tgctaggaag ctcaaagagc tc 442
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<210> 20737
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-C10

<400> 20737

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aattgcaatt gaacaaagag aaagatgatt tccaaaggat gacctccaaa accaaaaagc 120
taatcaaagc acatgggcgt tatataaaaag cacaggagga tttaaagagg tctcaggctc 180
gctttgagag gctagcagat ttgcttgctt cagatatatt gaagccttat accaaggagc 240
agggttccat cggattact gccaatgacg atccatataa tgctaataa atgagcccaa 300
gcgaccaaag acaaaacat gtttcagcat cgagaaagag acctatttcc ctcccaagaa 360
gtgaagaagc ataaactggt aagagacaga gagagaatgg tgatgatatg attccaacac 420
cagataacta 430
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<210> 20738
 <211> 284

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-C11

 <400> 20738

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 agtcgccatg gaggagaggc ggaggccccg cgagagcgcc atcgtctgga ggcgcacgtc 120
 gtcgcgcgcg aactgtgctg cgctgcgacc aaaggtgccg cagctgcgcc gtctcacgcc 180
 ctgcagctag taggcgctcg aggggaccct gcttatccgc acggccgaat acatcgtatg 240
 gatacgaact aggggtggatc ttctcagggc aataacatcc gtct 284

<210> 20739
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-C2

 <400> 20739

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 ggggatgagc ctccaaaacc tggaatggag gaaggggccg aaaaattttt tgataacaac 120
 gaaaatgccc ctgatgatgt cataggtgga gagggtgaaa ataaggaaca ggaaaagacc 180
 aagcgtgagc gcaaaacacc aaaatatatg acgaagtatg aacgtgcgcg cattcttggg 240
 acacgagcct tgcagataag catgaatgct ccagtcatgg ttgagcttga agggaaaact 300
 gacctctttg agattgcgat gaaggagct 329

<210> 20740
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-A6

 <400> 20740

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 ggctgtacag atctccgcga ccacagagcc tacctcgccg accatcctgg agcttcagca 120
 gtcaccacgg cgcaggggtga ggaactgagg atgcagatcg gcgctgcggc ctacatcgag 180

tgcagttcca aaaccagca gaacgtcaag tctgtcttcg atacggccat caaagtggtc 240
cttcagcccc cacggaggat ggaggcagtg cctgccatga agaagaacag gcgtggctcc 300
ggatgctcta taatgaacct tgtgtgtggc agcacatgtg ctgcttatgg agtctactag 360
aacactgaac cggaagggaa gtgaaggcgt gattcatggc gagtaatgcg ctgtggcaac 420
t 421

<210> 20741
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G4

<400> 20741

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tatcttcacg aagattgtca acgcataata atccacagg atataaagtc ctccaatata 120
ttgctggata ataactttga agcactgggt gctgattttg gtcttgcaag gttagctatg 180
gatgcttgca ctcatgtaac cacacgagtg atgggaactt tcgggtacct tgctccagag 240
tacgcgtcaa gcggcaagtt gactgagaga tctgatgtat tctcattcag tgtacgcctc 300
ttggagctta ttactggtag aaagcctgta tacgcatacga agccattggg tgacgagagc 360
cttgttgaat ggg 373

<210> 20742
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G7

<400> 20742

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cgactgacac taattacaga tttgacctgg ctgtgcagct tggtcgactt gaaatagcga 120
aggtgattgc tactgaggtg caaagtgaat ccaagtggaa gcaattaggg gagttagcta 180
tgtcaaattg aaagcttgaa atggcagagg agtgtcttct acatgcaatg gacctcagtg 240
gtttgttgct tttgtattct tcccttgggg atgccgaagg cattaacaaa ttggcatctg 300

tagccaaaga acaaggaaag aacaatgttt ctttcctttg tttcttcatg ctaggaaagc 360
t 361

<210> 20743
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-H1

<400> 20743

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aaggctagga tcggcgcgga tttcctcacc aaggaggtgc agttcgtgga caggctcttc 120
actctgcaaa tatgggacac tgctggccag gaaaggtttc agagtctcgg cgttgcatte 180
taccggggag cagattgttg tgctcctagtc tatgatgtta attctatgaa atcatttgac 240
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ttcccttttg ttctggtggg taacaaagtt gatgtagatg gtgggaacag ccgcgtggta 360
tctgagaaag aagccaaggc atggtgtgct ttcaaagg 398

<210> 20744
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-H10

<400> 20744

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ctgggcaagg gggactggag gggcatctcc aagggttcg tcaccaccag gacggcgacg 120
caggtggcca gccacgcca gaagtacttc ctccggcaga ccaaccccg gatgaagaag 180
cgccgggcga gcctcttcga cgtcggatc gcggactaca aggacaacca ggtgccaggc 240
cctcagagca tcgtcactgc caaaccggcg cctacgcagg agataatcca caccgaccgc 300
ggcgacgtcc ccataccaag acgatataga ggcctcggag agattttagg cagtaacatg 360
caggttaatc aactgactga ctactactat ttcaacaaga actnccatgt tcccgcgggg 420

<210> 20745
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-H11

<400> 20745

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 cccacccgga cgacgaggac gaggtctatc cgtaccttgg cgcgagggga gaggaagagg 120
 acacggtcac gttatggtgc ttgacatctg ctgaggag 158

<210> 20746
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-H12

<400> 20746

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 ggtgatcgtg ggcgccgggt ccgcgggcct gtcctgcgcg tacgagctgt ccaaggaccc 120
 caccgtgagc gtggccatcg tggagcagtc cgtgtccccg ggcggcggcg cgtggctggg 180
 cgggcagctg ttctcgcca tgggtggtgc cangccggcg cacctgttcc tggacgagct 240
 gggcgtgggc tacgacgagg ccgaggacta cgtggtggtc aagcacgcgg cgctgttcac 300
 gtnaccgtg atgaagccgc ttcttgccgc gnccaacgtg aagct 345

<210> 20747
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-H2

<400> 20747

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cgcgagtacg ccatcaacct ccacaagcgc ctgcacggat gcaccttcaa gaagaaagcc 180
 cccaatgcta tgaaggaaat caggaagttt gcacagaagg caatgggcac cactgacatc 240
 atgattgatg tgaaactcaa caagcacatc tggagcagtg gtatccggag ggttgcggtg 300
 cgtgttcggt gtatgatcgc acggctgagg aacgatgagg gagacgccta ggaagagctt 360
 tactctcttg 370

<210> 20748
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-H3

<400> 20748
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 ctggaggaag tcgaatcttt ttttgtcag tgtggcaagg taaatagtgt gaggctacct 120
 cgacatgttt ctgacaaaag gcatttctgt ggcactgctt tagttgaatt ttcagaagaa 180
 gatgaggcaa aaggcgtttt tgagaaaaat ctcatttttg ctggggcaga cctggaaata 240
 agaccaaaga aagaatttga tactgaaaga gaggcataga aagaagccta tgagaagtca 300
 catcctaata ag 312

<210> 20749
 <211> 152
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-H5

<400> 20749
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 cagggtgag gcngnaagag cagagagaag caaccnnggc angcagccnn gggagggaaac 120
 cgacgaggac ccaagcaagg caagggcgca ca 152

<210> 20750
 <211> 406

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-H6

 <400> 20750

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 aggcacaaagc cgacatatgg cggctcagcc tctcctacct cagccccctg tctactgaggt 120
 gcgcgctgga gcttggcatc cccacggcga tctaccgcca tggcggggct gcctcagccg 180
 ctgagctggg cagggcgctg tctctcccct ccactaagct gccgagcctc cgccgcctgc 240
 tgcggctcct cgccgcgtcg ggcgtgttca acgtcgacaa gcatagcacg gaagaggagc 300
 ggtaccgcat caagccccgg gatctacctt ctggtggacg gcatccctca cgaggaccac 360
 atgaaccact gccgtctggg gctcacctgc accttgacgc gctaca 406

<210> 20751
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-H7

 <400> 20751

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 cctcgacctc gccagaaaga gcggaggact tagtgatgag cagatcaaag tgcggccttga 180
 aatcaagcaa cttctcaagg aggetgatca gttgtcaacg ccgtccacat ttgcacaagc 240
 tgctaaactc aagcgcttgg ctgctgccaa ggagaaggaa ctggcaaaaa tgcaggaaca 300
 tgaccttaaa gggaagcaat ccttatacga caaatacaca aaatttttgg tggttactaa 360
 ggtccatatt tatgctgggc tcgttctggg cttttggagt actcctgtaa ctgccagttc 420
 acaaca 426

<210> 20752
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-H9

<400> 20752

ttccgggggcc tgcgtctgaa gacggattgc ctgggtcatgt agatgggtat ctttttagagg 60
caaggataaa ccatccaggg ggatgtacag tgggtcgacag gggtagcatt tatccggctg 120
atgccatgaa cttggcctta atactgatca atgttacagg tgttacaact attgctgggg 180
gagaaattag tcatcgaagg ccatgtttac ggaccaactg ctgaggcaaa attttctact 240
g 241

<210> 20753

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A1

<400> 20753

cgcgtacggc acgcattact actcactcac tcaactcaatt cgaatgccag ctcagctctg 60
ctcagctggg gacacgttac acccacatgc ctgccgacac atcacgccg atatcacagc 120
aaagcgggtat ccagggtccgt cgtctacagc ggcggcagcc atgaacaaag acaagcacca 180
cgagcactag caccacccta ctca 204

<210> 20754

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A11

<400> 20754

aagagtactc cgaatgagag catcttgcgt tctcacggct tggagactcg cctattcagg 60
ggcgcggtgtg aaacctgtg cgacaacgga ctaaaatggc tgagctgcgc gaactagtat 120
cttgtgtgct agagcatata catcacgact tggatatcgt tggttatata aagagtgtat 180
gcacctgaaa gcattagtgc ttgtgcaatg ccatttctctg aacacgcaa ctacaccagg 240
gacacataat gaacattgaa atgagtgtct actcgagagc ttatcaatcg ggtacctcga 300
agagacttct ttgtggataa acagatg 327

<210> 20755
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-A12

 <400> 20755

 gaattcccgg ggcggtgcgg ccactagatt tttcctgacg cgggtgtctgc tcccacttcc 60
 cctcctctcc cccaggtggc ggcagcggcg ggggggtagc atttgtgcta cgagggcttt 120
 tgcaatggcg gcttcggggg tggcgggcgg cgaggcggtc cggctctcgg ccgcaccagg 180
 ggccgggctta ctgaagctgc acaagggcga catcaccctt tggctctgtcg actgcgccac 240
 cgacgccatc gttaatgctg ctaatgagcg aatgttaagt ggcgagggtg ttgatggagc 300
 tatacatcaa gctgctggac cagagctagt gcaagcatgc cggaaagtcc cagaggtcaa 360
 accaggagtt cgttgtccta ctggagaagc taggattact cctgcttttg agct 414

<210> 20756
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-A3

 <400> 20756

 ccactcatca ctctcactc actcactcaa aacgaaagcc agctcagctc tgctcagctg 60
 ctcacacctc acaccacag gcctgccgcc acagcaccgc ggatagcaga gcagagcggc 120
 agccaggctg gtcgtcgtcg tcgtcgtcag ccatgagcaa ggacaagcac cacaagcacg 180
 agcaccacct gcggcggttg tcggggtgca tggcgtcgtg cctcctggcg ctggctcctc 240
 tcgtggcctt cgtctcgtcg gtggtgtacc tggcgtcgcg cccctcgaag ccgtccttct 300

<210> 20757
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-049-Q1-K1-A4

 <400> 20757

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agaaatggcg gcggcagcgc tccgtccggc gatcctccgc cgcacccgcc tctccccctc 120
 cccttgcgtc gccctcgcgc ccgctgggac aggtgcatcc caccgcgacg cgctggggcg 180
 gtggctcgcg cggcccatgt cctcccacga cgcgcacctc acccgcgacg aagtcacga 240
 ccggatcctc gacgtcatca agagccaccc caagatcgac ccctccaagg tgacccccga 300
 ggcgcacttc gagaaggatc tcgggctcga cagcctggac accgtcgagg tggtcatggc 360
 catcgaggag gaggttcaagc tcgagatccc agacatggag gctgacaaga tcgac 415

<210> 20758

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-A5

<400> 20758

caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc ggcggcgggt acggtggtgg 60
 ccgtggaggc ggcggtctacg gcggtggcgg gcgccgtgat ggcggcggcg gctacggcgg 120
 tggcggcggc tacggtggtg gcggcggcgg ctacggtggt ggtggcggcg gctacggcgg 180
 tggcaaccgt ggcggcggct acggcaactc cgacgggaac tggaggaact gagcggtggg 240
 gcccgcgcg ccaagttatc ctgttcgcta ccgtgttggt taccctagtc cagagtgttt 300
 atcttcgttc gtctcgtgtt tgggtgttgc catctgtgtt tttgattg 348

<210> 20759

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G3

<400> 20759

aacctcggaa gcagcaacgg agcctgatct tatgcggagg aaattttgta cataatacac 60
 ggacctgcaa tgtacagaaa caaaagggtc atttactaac gtctgctgcc tgacagaatt 120
 gaactagatc gcttgggtact tgtacatggc cgccttttgc gattatcttt ctcactattc 180
 tcagtctact atacagatga gtgccatggc atggtaacct caataacaac agatatagtt 240
 aacttgggat aaactgaaga gataatcatg aacagggttc tggaaaatta ccagataccg 300

tccaatctga atctatagag ctaaaggaaa tctgactgtg ttatgc 346

<210> 20760
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D10

<400> 20760

ttccgggtcc gaccgacctt ccgttttggg ttcttttttc aacctgtttt cccccgcttg 60
gcaagcaacg ccaaccctga gccagcaacc cccttcttgg aagcttttcg caaccgatta 120
actaaccctt cgcgccaaga ttcggggaaa aaaaccacc ggaacttaac ttgaaccggg 180
gtggttgggt cctgttccgc cgcaccagga ttgaccgaa acccct 226

<210> 20761
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D4

<400> 20761

gcctcagcgc tctacctcaa catctcggga gtgacggact tctgcgcaca gcatgtggca 60
gccccagcta catagctcct gaggttctgc ataacagagg ctatgacggc tccttgctcag 120
atctctggtc ttgtggggtc atcctctacg tgatgcttgt tggtgcctt cccttcgacg 180
acaggaacct cgtcgttctt tatcagaaga ttttcaaggg agactgccag atccccaagt 240
ggctt 245

<210> 20762
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-D6

<400> 20762

aattaattta attgaagatt caacaaatat tacatcatca gggcatagtt tgcttggtcc 60
tgtaaaaaca tggcaaattc aagattgtat tgatgttcat aaattgctgg agacagtctt 120

tggatgatcag aatgttgcaa ataggtggaa ggcacggtgc gcggaatatt ttccgtactc 180
 gacgtacttt gaaggcatca agagcgctat ttcaacctat gccattgacc atagtctcga 240
 gagccccacca gaaaatggaa ttgcttcaaa ccctcatctg aaatcaaaaag atggagaaca 300
 agggagtttg aatggaactc tgcattattgt agatgatttg agcagcctaa gcattcggta 360
 atgcacgaac aagttgctga atggtcacaa ctggaacaca ccattttaga actggagcca 420
 gtaccccaaat aaccaaagcg tacacgaac 449

<210> 20763
 <211> 163
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-048-Q1-K1-D7
 <400> 20763

cgaaggttgt gaacgccttg aagaaggaag gggtcagctt tgggtccttc gacatcttat 60
 ctgacgagga agttagggaa ggattgaaga cgtgctccaa ctggcccacc ttcttatagc 120
 tctactacaa atcggaaactt attgggggat gtgatatcgt tct 163

<210> 20764
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-048-Q1-K1-D8
 <400> 20764

accaattgaa aattttattt gcatttattt tctcatgtt tggtttgcta ttataattaa 60
 tgaatctgag atcttttgcc ttttgtgctt tctgaactg tgaattagac taagagctgt 120
 agaagtttat tggtcacttc tgtatccttt gcagttcaga tctttgttct tgtttgttgt 180
 ttcacaataa gtgctgcaaa cattaatcag attatatctt agtcacttct ttttattttt 240
 acatatgtct aagagattag ccatgtctga ttgacggaac caagatctag ttgttggtgca 300
 gatgactttc ttcactttag tatggcaata cgggtgtctta ctagcgaaat tggttatttg 360
 aatgccatat tattttgata ccatcttctt 390

<210> 20765
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-D9

 <400> 20765

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 gccactccaa caagagggtta gagttggatc ctgtcctgtc ttctccagtt ctctgtctat 120
 atcatgtatc aactatttat cctatcatca ctctgaccac tttggtattg tgatttcctt 180
 tcattattat agagttntgt taagtttctg gaatccacat gcacatatat a 231

<210> 20766
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-E10

 <400> 20766

 gcaacgtcgt ccgtagaaga gtgtcagccc tcgctngttg cctttcctca ctcaagtagc 60
 cgatnggtgg atctactctt gaggtacgtg cgtaccggtg gtcgcaatgt gacggcgcag 120
 aagggcggtc taagaaccta gtccttacct caaggtagct tacttactcg gtgca 175

<210> 20767
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-E12

 <400> 20767

 agatgaggac taacctgaag gtggtcgata actccggggc caagcgggtg atgtgcatcg 60
 agtccctgag ggggaagaaa ggagcaaggc tcggggacat gatcatcgga tccgtaaagg 120
 agggccagcc tcgtggcaag gtcaagaaag gagacgtagt ctacggcgtg gtcgtccgtg 180
 ccgccatgaa gaaaggacgc agcgatggca gcgaggcca gttcgacgac aacgcgggtg 240
 tcctcgtgaa caagaagggc gagctgatcg gcacccgcgt ctttggcccc gtccccccacg 300

agctgaagaa gaagaagcac ctcaagatcc tggccctggc tgaacacatt gtttgaggtg 360
tgctgcataa ccaagtgttt gtgggaatgt ttttttttgt gtgttctc 408

<210> 20768
<211> 189
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-E2

<400> 20768

gngctcaacg angcgcacaa gaccaaggac aacgcagaga agannggcaa gaggcaggnc 60
aggancaggc cgncagccaa gggcagcagc aagagccgga cgggcaagca gcgccanggc 120
nacagaggag agagcgagga cgnngangac caccgancgg gcaagaagga gggcgaaccc 180
aacgggagg 189

<210> 20769
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-E3

<400> 20769

gnnntatata gtttcttgtc attttgtcat aacactgact atggtatatc cacacatggc 60
gttcatgcaa attctcatc tcataactga aaagaatcga ttgaaaacga gcataaacct 120
gtccctcact cctatcctga accagtataa tttaacttgc ttcgagtggc agcattataa 180
atctctgcat gacctatgtg gtcagttctg cattattatt tgtccatttg agatccacca 240
gtgtatatta tcagatcagt ggagtatttg ttttcataat gcaggggtta tgggtgccact 300
tacgtggtcg atcagaatga aaaatgcgct cgggtgctgcg aatggacttg cttttctgca 360
tga 363

<210> 20770
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-E5

<400> 20770

ctcatccttt gctcctcttc aaacgctcga gaaagagaga gagagacgaa accctgcttc 60
gggaccctag catagccact gccttcccg cgcctaggaa ggggaagata tgggcgccga 120
ggaggacgcc gctgcacgcc gcgagcgtct cgcgcacctc cgtgccgtca aggacctcct 180
ctccacccgc gacggcgccc caacccttc caccgacgga gaacaccaa atggcaacca 240
tgagatggca gaagagccag aattaccagt ttctcaggat gcacctgggt aggctggtaa 300
agaggatggt agccccactg 320

<210> 20771

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-E9

<400> 20771

cagcagatac gcttatcagc gatcgtatac acgatgccca gtcttttagca gcctgggacg 60
tggcaatagc catgcgaact cagtcaaaag agaacgctgc ctctgatgca gcttcagttg 120
ttctactagg caacagactt tctcaggtgg tagatgcgct atccctgtct aaggcaacga 180
tggcaaaagt tcaccaaagt ttggcctggg cagtggcata taacat 226

<210> 20772

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-F1

<400> 20772

cgccggcggt gagatgttgg tttatcagga tctcctatct ggcgacgagc tcctgtcgga 60
tgcattcacc tacaaggagc tcgagaacgg cgtcctgtgg gaggtcgagg gaaagtgggt 120
cacccaaggt cctgttgatg tggacattgg tgccaatcca tccgccgagg gtggtgagga 180
cgaaagcggt gatgacacag ctgtgaaggt ggttgatatt gttgacacat tccgtctaca 240
ggagcaacct ccttttgaca agaaatcatt tgtgtcttac atcaaaaaat acatcaagaa 300

tctcactgct gtgttgagc cagagaaagc ggatgagttc aaaaaggggtg tccaggggtg 360
ccaccaagtt tct 373

<210> 20773
<211> 103
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-F10

<400> 20773

cggactcgtg ggtgcgacat gaatgatgga tctttttaac atcctaacca tcatggtant 60
cgctcattat cgtattttgt atagtattta tgggttcacg gat 103

<210> 20774
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-F11

<400> 20774

gctggttcca gctcaagtag ttctctgcaa atatcagaac cagaacccca acaaatccaa 60
gaagaagagg agtactatat ggaggatgat tgtgatgatg attttgatgg ctacgacgaa 120
gatgattatg acttcgatga agctgacttt aaccagcacc ttgctgataa atttgatgat 180
ttggatcttc ctccaggcgt ggaggccacc gtaccttggt tgcagaaaac tacaccaag 240
gaagatgtca aagagccacc taaatcaa atgcagatg agaatgcaaa taaatatacy 300
cagttcaagc agtttgatac tggtcagaat ttctctgacc attactacgc taagaattct 360
catggagagc caaacagagc cttgtcaaag agagttcaac atgactggaa acttctggag 420
aaggatctac cagcgtatat tttt 444

<210> 20775
<211> 189
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-F12

<400> 20775

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gcgtccaaag caaacagatc actgtacctg gttatatcc tttgaggaac accctttgac 120

cagtgaagtg ggaatatctt ctccagcttt atatgatgga ttggttgaga tcaaacaacc 180

caatgacat 189

<210> 20776

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-F6

<400> 20776

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acgggacgtc cagccgggtca agtcccaggc ctgcataggc cgcaccctga agaacggaag 120

tgtagtcgaa cactgtcttg atctcttctg ctaatcaagg tctcctgcat cggtgacatg 180

ctgatgacat ataccagcac ggtcaaacga cgggtaaacc ttttgactcc agatagtaat 240

tgggggaata gcttacctcc actgtgtttc ctggcgcacc atggtgtaac ggagttccta 300

gagcgcgact a 311

<210> 20777

<211> 203

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-048-Q1-K1-F7

<400> 20777

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ccngcaccag ggcaagcggc cccaccaccg aaggggaggc aaganccacc accaccacca 120

ccccagcag cgccaagccc gccaccaggc acngcaccag caagngangg agcacagaac 180

gagccaccgg gaggaacacc acc 203

<210> 20778

<211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-C8

 <400> 20778

 ggtaagcagc agcaggaacc ctagcaccgc cgcacccgca gccatgggta tcgacctcgg 60
 ggccggtggg aggaacaaga agaccaagcg cacagcgccg aagtccgacg atgtttatct 120
 caagctcctt gtcaagctct accgtttctt ggtcaggagg accaagagca acttcaatgc 180
 tgtcattctc aagaggctct tcatgagcaa aaccaatcgc ccaccaatct ccatgcgccg 240
 acttgtcaag ttcattggaag gaaaggagaa gaacatggct gtgattgttg gcacagtcac 300
 agatgacagg aggatccaag aggttccagc aatgaag 337

<210> 20779
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-F8

 <400> 20779

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 ggtctccgac aagatctgga acaacgggcc catcagcttc cagctgcagt ggttccagca 120
 ggtcacctcc gccgtgtgcg gccaggactg caagagctac ctggccaact cgctgttcgt 180
 gttcggcgag ttcgggggca acgactacaa cgccatgctg ttcggcaact acaacgcgga 240
 ccaggccagc acgtacacgc cgcagatcgt gagcgccatc gcggccggcg tggagaagct 300
 gctggccatg ggcgccacgg acgtggtggt gccgggggtg c 341

<210> 20780
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-F9

 <400> 20780

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gttccaactc gatcatccca cacatgcgcg aacgttagcc tctaccgcta gctaggagct 120
 acccaatcgg tcccgtagcc atcaccact tcatcctcac ccatctccac tagtacggtt 180
 cattctc 187

<210> 20781
 <211> 201
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-G2

<400> 20781
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 caacgggtgg cagtggctga aggatttgag acattcaggg atagatatgt caagagnaca 120
 taaacatact cgaaatcact agatacgtta ctgncattcg tgattaagcg ctcacaaaat 180
 ctagctgaat gcacgtgtaa a 201

<210> 20782
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-A4

<400> 20782
 aaaaccgttc cctcccgatg gcaaccgccg ccaccgccat ggtggtaccc gagcagccac 60
 gccgccggaa gccggccccg gggcgcgag gagtggccct ccctgcgggt ctctcgagg 120
 aggaggccag ggtgcgggcc atcgccgaga ttgtctcggc gatgggggag ctctcgcggc 180
 gcggggagga cgtggacctc aacgcgtca agtccgccgc gtgccggaga tacggtctgg 240
 cgcgagcgcc caagctggtg gagatgatcg ctgccgtgcc cgaagccgga ccggccgcgc 300
 tgctgccgcg gttgcgcgct aagcccgtgc gcacggcatc gggatatgcc g 351

<210> 20783
 <211> 257
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-048-Q1-K1-A5

<400> 20783

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agcaggcgaa gcaccggctc ccatggccgt ggacctgatg ggctgctacg ccccgcgccg 120
cgccaacgac cagctcgccg ccgccggcgc ctctgtcgt ccacggtcg cccgtcagcg 180
tggcgagcc gccgcaaagc ctgacgtgg atttcacgaa gccgaacctg gccgtgtcgg 240
ccgtcacgtc cgtcacc 257

<210> 20784

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-A6

<400> 20784

ggaagaaata cggagaaggg ctggtgctga tgataagcca ttaagaatgg tcaaaaccgt 60
gttgcataaa cttgtgaagc ttcggggaac ggcaataaag ggtcaccttt cgatggttcc 120
tatagatgct gaacctcagc caataattct agcatacatt gatcttaatc tccagaccct 180
tgctgctgct agaatggtga cgccatcggg acctatgggt caaactcact ggggtgatgc 240
tgcttcaaac aatccaaatc catctactca ctcagcagac gcgcaattga agcagaagct 300
tgctgctgct ttcaagaaaa tcgcgacagg ca 332

<210> 20785

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-A7

<400> 20785

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gagaattacg agagattgtc cctaattggtg caaagtgcag cattgatgct ttgttgagc 120
gaacaattaa gcacatgctg tttctacaaa gtgtaaacia atatgcatag aaaattaagc 180
aagctgatga accaaagata atcgacaaaag ggagcgggtg tatcttgaaa gacaaccag 240

ttgctggcac aaatggtggt gctcgttgg cctacgaggt tgctggccaa actatggttt 300
 gccaataat cattgaggat ctttcaccac ctggtcagat gcttggtgag atgctttgcg 360
 aggaactagg gctttttctg gagatagctg acaacatacg tggaaattgt c 411

<210> 20786
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-A8

<400> 20786

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 ggaagcgggtg ctgcgaggga gggcgtggag atcacttacg tgagctatgg cggggagcag 120
 catctgccgc tggatgatgtc gctgggtggac gaggagctca gcgagcccta ttccatcttc 180
 acctaccgct acttcgtcta cctctggccg cagctcacct tcctggcggt cgatgccagg 240
 gatggcaagt gcgtggggac agtcgtgtgc aagatggggg atcatatggg tgcattcagg 300
 ggctacatcg gcatgctcgt cgtcctcaag ccctaccgag ggaggggaat agcagctgag 360
 gctagtaact agatcaattc gggcaatgga tggaatct 398

<210> 20787
 <211> 319
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-A9

<400> 20787

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 tgaggcagag accgacagag atggcagcgg ttatggtgtc tcgccaaggc cgggagctgc 180
 agcggtacag cgcgagcacg ggcggtcgcg tgggtggtggg ctgcgtcccg taccgctgct 240
 gcggaggcga cggcgagggtg gaggtcctgg tgatcagctc gcagaagaag ggccccgcgg 300
 ngggcgtgct gatcccca 319

<210> 20788
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-B1

 <400> 20788

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 cgagcatcgg aacgtttctca tgggggtgtgg caaacgcggg ctgctctatc cgtgtggggc 180
 gagataccga ggcaaaaggg aaaggttacc tggaagaccg tcggccggca tcaaactatg 240
 acccgtagat tgtgacgggg ctactggccg agaccacgat cctctggcag ccatcccttg 300
 aggcggaagc tcttgccgcc aagaagctgg cgctgaaagt gtg 343

<210> 20789
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-B10

 <400> 20789

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 catttctttg gtaattatgt gcgtgcttgg tgtttatgta cagttttatg tgcttgataa 180
 tgggcacatg gccagttcga caatgtcata cagttatact aactagtagc attgcttatg 240
 cttgtgagag aacataatta agtt 264

<210> 20790
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-048-Q1-K1-B11

 <400> 20790

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cacagccaac ctggaaccta caccaacacc tctgcatcca cgtcctgccg cgccaccta 120
 tctccgggcy ctttccacct tggcccccggt caagtcagag gctcctccca cccctogtc 180
 ttctaccgcc atcacgcgcg caccgcggagc ggaggatcca ttctaca 227

<210> 20791
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-B12

<400> 20791

aaatttcaac gtgttatgag caaaacacca gaattgccat ttgacgct aactactcat 60
 ttctttgcta attatgctct tacttgaaaa ttatctacat ttatatgtcc acgataatat 120
 tcacatggac ctttcaaaca tgtcatcacag ttatactaca ctcatcatt gattatactt 180
 gtgatataac ataattaagt taaaatgacc attactaaaa tgcgtccaa 229

<210> 20792
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-B3

<400> 20792

cggacgcgtg ggcggacgcg tgggtttcaa ttgaatcgag atgggtttatc ttttttgttt 60
 gagagatagt tagtgaaaat attgcacttt ttcttgatct ctggcacaat tctctcgtga 120
 ttttccaggc atatctctgt acaaggagta gaagcttaca ccaaaaatta gtattcatct 180
 aaggatctaa tttcattttt aagtttacag aacaaaaaaa tgtggtacat atggattcac 240
 taaaaatgga cttgttgac aatatgtatc ttattacttt aataagcttt tgcattttgc 300
 tcttgtaact tgagcattct atcccatgta ggaacta 337

<210> 20793
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-B4

<400> 20793

caatgatgtg tctcaatcca atagcttggtc cagtgggtttt cttccgttat ttggtgggtt 60
gcttcaagct caaggaaaat atcctggaga aacaagagtg agcttttctt gcaagaataa 120
gcgtggcaca aggtttactc ctatgtttca atggcctgac aagtctgttt cgtaggagt 180
tactcaagcc ttggcatgga aaagatctgg tcttatgggtg agaccagta tacaagtcag 240
tgtgtgccct acgtttggag gaagtgatcc tggggtagcg gcagaagttg tccattcatt 300
gaaagaggaa ttgaatctga tgtggggcct ctcttgctcg cggcatccat cagcttatac 360
tgctctatct atttgacgat caaagtggaa c 391

<210> 20794

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-B5

<400> 20794

aggatcccaa cataataaag agagtcctca atgacgaggc aaactacggc agacagattg 60
tgaccatata cagcattgat ggaaaaataa tacgttatgc taggccagat cacccaacta 120
gaaaagggag tgatgcatct gccgagtctg gatctgaagt ggaagatgta acatctccta 180
ctgcatcaag gaacctgatt acacatccta ttttgacccc tgttcacgaa gagtcaaaat 240
tgtcgccaca tggttccaca tttggtgata atgcttctat tgaagaaaac attcctgttg 300
tagacaaggt tgtggatgat ggatggggta ctcccagagg tagtcttcaa gcttcttcag 360
gttctgtgcc cttgagaaac acgcacggca cattcgaagg actgagagtt caagctgtcg 420
catggc 426

<210> 20795

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-B6

<400> 20795

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cttcggcgcg atggtggcca tcgacgaccc gctgacgaca ggccccacgc gcgccgcggg 120
caccgaggtg ggccgcgccc agggcaccta cacgtttgcg gtccagcaga cgttcggcct 180
cctcatgggg atggacttcg tgttcacggc cggggagcac aaggtcagca cgctctccat 240
cctcggcc 248

<210> 20796
<211> 321
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-048-Q1-K1-B9
<400> 20796

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aaggctcctgg gaaacgtgat ttaatagtgt ggctgcagta caatgtgtaa acaggtatcc 120
tcgaactaaa gtcggcatta cagtggaccg gaataatacg aaggttgact cagagccgaa 180
gggtgcgagca ggaaagcttc tgcgcgacag caaagagtgg aaccgactta tagatgaaaa 240
ggctattcag acctcaatag actactatag agntattatc aaatgtaaag ggcatgaatg 300
taattttgta aggctgtgtc c 321

<210> 20797
<211> 263
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-048-Q1-K1-C1
<400> 20797

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cgggtgcaggc gtacgacaag tacggcggcg tgttcgcgta ctgcctaccg gcgacgtcgg 180
ccgggacgga gttcctggac ctggggccgg gcgcgccggc ggcgaacgcg cgcctgacgc 240
cgatgctggt ggacaggggc ccg 263

<210> 20798
<211> 344

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-C12

 <400> 20798

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 ccttgacaac gggcggtgc tgacgctgct gctggaccgc acgtccggct ccgggttcca 180
 gtcccgccac gaggtaacct tcggcaagat cgacatgcag ctgcggctgg tgccgggcaa 240
 ctccgcgggc accgtcaccg cctactacct gtcgtcgcag ggcggcgcgc acgacgagat 300
 cgacttcgag ttcttgggca acgtgtccgg cgagccctac acgc 344

<210> 20799
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-A3

 <400> 20799

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 agtgtgtctt ggtggttagag tattgtcatc aggaagagtt gttaagatgt ggcaattcat 180
 agggatacca tactaccata ccgatagcca gctacagcga tctggatgtg gttgtttgtt 240
 ggactcatag aacagatact gttggtgtgt tatatgtgca ttgatgctgc tacgatgata 300
 aagaaattcc ttcttttatt at 322

<210> 20800
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-C5

 <400> 20800

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 ggtccagctt catatgggca gaggcacca gcagctccag gatatcctca gcaaggcacg 120

catcaaggtg gctatgcaca gtacccgcag acccaaccag catatggtga tcaagcagct 180
 caagccaatg cgaactatgg gtaccaggga gtcacagcat atcctaacta cagaagtgcg 240
 taccacagc 250

<210> 20801
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-048-Q1-K1-C7
 <400> 20801

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 tccctgttga tgctgtcttc cagaaggatg agatgattga catcattggt gtgaccaagg 180
 ggaaagggtta tgagggtgtg gtcactcgtt ggggtgtcac ccggcttccc cgcaagaccc 240
 acaggggtct ccgcaaagtt gcttggatcg gtgcatggca tccggctagg gtctctata 300
 cggttgcccg tgctgggtcaa aatgggtacc accaccgtac tgagatgaac aagaaggttt 360
 acaagatcgg gcaggctgga caag 384

<210> 20802
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-047-Q1-K1-G11
 <400> 20802

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 gttcaagatg atctcaaggg cactgacaag aaaaggaaca gctctagtca agcttgctaa 120
 gacctctaag gattttgata ttgccatcga gacctaccag aaggctctaa ctgagcatcg 180
 gaaccagac actcttaaaa agttgaatga ggctgagaga gcgaaaaaag agttggagca 240
 acaagagtac tatgatccaa aattagcaga tgaggagaga gagaaaggca acgagttctt 300
 caaggagcaa aaatacccag aagcaattaa acactacacg gaagctctca agagaaaccc 360
 aaaggatcct aaggtttaca gc 382

<210> 20803
<211> 299
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-G12

<400> 20803

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ggaggtgcac gtcgggcacg agctgtgcga gcgcaagtcg cgcgagttca tgggtggagct 120
gggcctcccc gacgggctcc tcccgtgcc cagcctggac gaggtgggct acaaccggtc 180
gacgggggttc gtgtggctgc ggcaggccgn cggcctgacc cacaccttcg ggtccatcgg 240
caagcaagtg tggtagaca gggaggtgac ggcgttcgtg gagccggggc ggatgcacg 299

<210> 20804
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G2

<400> 20804

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cgggcaccct gatgcagcgg cagatcgggg cggcgccctt tgctcgtgcg tccgccgtcg 120
cgaactcgct gcaggcggtc ggcgtcaccg ggcccgcagg atcaggctcc tgcagactgc 180
agcaggcgctg acccggaagc tcgcggttgc gctgcactgg cgctctcgtt ggcgcagcgc 240
gaggacgcca aagctgccta cacagatcaa gcaaacgtac at 282

<210> 20805
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G4

<400> 20805

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cattgacgcg caatccggat cttgctcatg tcttcaatga tccaagcatt atgcgccaga 120
cttttgaagc agttcggaa cctgaactca tgagggagat gatgcggaac acagacagag 180
ccatgagcaa catcgagtct tctccagaag gattcaacat gctccgtcgc atgtatgaaa 240
ctgtccaaga gccttttctg aatgcaacaa caatgggtag cgaggggtgat cgaaattcga 300
atccattctc tgctcttcta ggaaatcagg ggtctaacca agcaagagac tcagctgcaa 360
atggaacaac tagagcttca gaccccaca 389

<210> 20806

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G5

<400> 20806

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tgtagatggc gtcggaggcc aaggacgtgg gcatcctcgc catggacatc tacttcccg 120
ccaactgcgt gctccaggaa gagttgaaa cacatgatgg cgtgagcaaa gggaagtata 180
ccattgggct tgggcaggaa agtatggcat tttgactga agttgaggat gttatttcga 240
tgagcttgac agtgggtgaag tcccttctga aaaactataa cattgacca aagtgcattg 300
gacgttttga agt 313

<210> 20807

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-G6

<400> 20807

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ggccgagctc aagaggacgg cgctctacga cttccacgtc gccacggcg gcaagatgg 120
gccgttcgcc ggctggagca tgcccatcca gtacaggagc tccatcatgg actccaccgt 180
caactgccgc gccaacggca gcctcttcga cgtcgccac atgtgcggcc tcagcctcaa 240
gggcgcgggg gccatccct tctcagatc cctcgtcgtc gccgacgtcg ccgcgctcag 300

ggacggcacc ggcaccctca ccgtcttcac caacgagcag ggcggcgcca tcgacgactc 360
cgtcatacgnc aagggtcacg accaccacat ctacctcgtc gtcaacgccg gatg 414

<210> 20808
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G7

<400> 20808

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gcggcgggcgg tcttggcagc ggcgctgctg ctgctggcgg cggggggccgg gacggcgctcg 180
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ggcagcgcgg cgtcgccctc cgcggcgtgc tgcagcgggg tgcgctcgct caacagccgc 300
gcgtcgctcg cggcggaccg gcaggccacc tgcaactgcc tcaagagcat gacggcccgc 360
ttcggcgggcg gcgtcagcat ggccaacgcc gccaacatcc 400

<210> 20809
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G8

<400> 20809

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gcttgatggc aagaagaaga agaaaaacaa gaagcaggga aaggatgatg atgtcgaagc 120
taggctggaa aaggcagaat tagcaatact taacaagttt gaggcagcag aaaagctcaa 180
tggaagagag gtagaaccaa aaagtcagaa tgacagtgct gatgactgca gtggtgct 238

<210> 20810
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G9

<400> 20810

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gaggccgaga ccgacaatcg gatccggcga caaggcgaga gggaagagat tgggctcacg 120

ttcaccaagc tggtcaggct ggtgctcgcc aagaagggga tgcggatcct gatggtggga 180

ctcgacgccg acggagagac taccatcctc tacaagctga agctcggcga gatcgtcacc 240

atcatcttga ccatcggatt caatgttgaa actgtggagt acaagaacat tatcttcact 300

gtctgggatg 310

<210> 20811

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-H10

<400> 20811

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ccatccttgt ggcgactgat gttgcggctc gtggcttga cataccacat gttgcccattg 120

tgattaatct tgacctccct aatgatatag atgactatgt tcatcggatt ggaaggactg 180

gacgtgctgg gaaatctggt cttgcgactg cattcttcaa cgagagcaac actacgcttg 240

caaggccggt gagtgatctc atgaaagagg ccaaccagga ggttcctaag tggcttgagg 300

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gtgccag 367

<210> 20812

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-H11

<400> 20812

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aagtggggtg gcagtggcta tggaggtggc ggtgggtacg gaagctaccg cggctgtgga 120

cgaagaggtg gtggatggta tagcggttac aactattgcc tgggggaaat 170

<210> 20813
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-H12

<400> 20813

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eggcatcgtc tgcattctccg gtggccatcc atcctcctcc cttctctcgt cgttccctcc 120
actcctaggg ggaagcggcc ggccgagagt ggagatcgac ccggactttg aaattgcctc 180
ttccttttga tgggtaccat gaagagggtg gtttcgaccg ccctcgccgc gagagggtc 240
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tttatgaact attcatcacc acatggtggt gatcccaatg caaacacgaa ctcaactaca 360
acacgaatag ctgctgatcc tgatacaca 389
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<210> 20814
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-H2

<400> 20814

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acatgctaac ttaatccttg gaaagtccac cagcggtata tcaaacaact gaaacatggg 180
cacccaaggc agctacaatg atactaagcc tttcactgga cgataacggt gcctccttga 240
ctgtatgaag tggtgaaatt ttgtgctcga ctgattactg atgggggggtc tgtatatttt 300
tgcgagatta tggatgatga aaatagtagt tataatgtgt gtgcactctg atgtccctag 360
ctgctgcctg aacgttattg tttagcctta cctctatggc ctatgcacat gctcttctt 419
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<210> 20815
 <211> 397
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-H3

<400> 20815

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cgggcaacat ccagaacaag caccggcaga ttggcaatgc cgtgcccccg cctcttgccct 120
atgcacttgg gaggaagctg aaggaagccg ttgacaagcg tcaggaagcc agcgcaggcg 180
tgctgcacc atgagaagtt ttccttccat caaaccatga cccatgaagc taagcgctga 240
ggtcgtcctt gaggaccagt taattttggc tttatcagtc ttaatgcact cctgaatgta 300
tatgttagag aagtgtcgat tgctgattgg ttacctgat tcaggtaacg gttatatcta 360
aaaacttgag gaaatctagt gtactctagt tgtcatg 397

```

<210> 20816

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-H5

<400> 20816

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ttgttgaaca gtgtatactg tatagcgggt tccctctcaa gcagccattt caaaacttga 180
ataaggataa ggtactcgtc gtaactgtat cgctatcttt atctttataa gagatacttg 240
gatatgcacc aaaatgcatg tacataacat accacatatg acagtaaata atgcatg 297

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<210> 20817

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-H6

<400> 20817

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gagaggaatc gcaaagaggg ccgtctcatc cgagttaagg aagccatgga gcacaaggag 120

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gctgggtgcc aggccccga gggacccatc ctctgcatca ataactgtgg cttcttcggc 180
agcgcggcga ccatgaacat gtgctctaag tgccacaagg agatgataac gaagcaggat 240
caggccaagc tggctgcctn ctctatcgac agcatcgtga acggcagcga cgccgtcatg 300
gagccggttg gtgctggcag caacacggta gtagc 335

<210> 20818
<211> 363
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-H8
<400> 20818

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ggtcaacgac ctacccggca acgacatctt caagggagac gctccgccag cttctgcaga 120
gaagcatctg agcaccgcga agctgaagga gatcactgga agcaacattt ttgcagatgg 180
gaaggaacca atccgcgagc gtgtggggcg aaaccgcaag cctactggcg gtgagagcag 240
catcgcgctg atttagcata atccgggact cagtgtcgac ccctagagga ggatttccac 300
cagtaccagg cagcaggctg gtggatcgtc agtttgngt ctggttcctg atcaaggtgc 360
ggc 363

<210> 20819
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-048-Q1-K1-A12
<400> 20819

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ggtcagtgcc ttcgttgtta gctgttagct ccacagtcca cagttccaca cacacgtcca 120
gctgcactgc accaatggcc gccgtcgagg tccagggtccc gactgccgct cccgtcgagg 180
aggctgctgc tgctgctgca gcgggagtgagg aggtgcccga gctggccgcc gtcgagaccc 240
cgaacgagga gaccgtgct ccggcgggcg agaccgaggt cgtcgccgct aaggagccgg 300

tgtc

304

<210> 20820

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-G10

<400> 20820

aattctcggg cgaggacgcg tcacgcgtac gcagacgcgt gggtgaaaaa cgacctcttt 60
ttgatgtcaa gacatgccaa attgcgggca gacgtccaaa gcaaacagat cactgtacct 120
ggttatattc ctttgaggaa caccctttga ccagtgaagt ggggaatatct tctccagctt 180
tatatgatgg attggttgag atcaaacaac caaatgacat tcctgcaatt aatggtgcca 240
caacctgcag tggtagttca gtgatccctt gcggtaatca tgatcaatca attttagtgg 300
caagcttaga catacctgat tgggcgactt ccttgcctgg atattttgaa gactgtgggc 360
cagttgttac atatagccat gttgatgaca ttggttcgcc tagaaagggg gtgccaattg 420
gacctgagca ccatgctgac attccagaat tgaggcccct aaactctatg a 471

<210> 20821

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-E3

<400> 20821

cacctccgc gaggtcgtcg tgccggcgca ggctaccttc ggtgagttga agaggatcct 60
tgttcagact actggcttgg agcctgagag gcagaggctc ttcttccgtg ggaaggagaa 120
gagtgacaga gaggctctcc acgcggcagg tggttaaggat ggcgcaagt tgcttctgct 180
tgagaagcct gccctgccca acatagagca gaagggtgag cctgtgatta tggatgagag 240
cgtgatgaag gcatgtgagg ctgttgctcg tgttagagct gaagggtgat aggctgtctg 300
ctaagggtgtg tgacttgag aagaatgtgc ttgcaggag aaaagttgat gata 354

<210> 20822

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-E4

<400> 20822

caagaatttg gctgaagaag ttacaaagct atctgtgcta aatgcacagc atgctaata 60

gtgattagtt gctcaagaga tggcacattc aagggttcat ggtacaaagg gtcgtacagc 120

tagtaggggt agggatgagg ttgggacatg gagcctcgat ttggaggaca tgaaaatgga 180

gctacaggcc acaagacaga gggaggctgc tttggaagct gctttggcag ataacgagct 240

cctcgaagaa gagtacgaga aacagtttga cgaggcggct aaataggaac tatctctgga 300

gaatgatcta gcatgcatgt gggttcttgt tgctaagctg aatagaggag ctttaggcat 360

atctgatttg aatgttgacg acc 383

<210> 20823

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-E5

<400> 20823

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gacgagagag aggatcggcg gcggcgggcg gtgggagatg gcgcgcgaga ggcgggagat 120

acggcgata gagagcgcg cggcgcggca ggtgaccttc tccaagcgcc ggcgcgggct 180

gttcaagaag gcggaggagc tcgccgtgct gtgcgacgcc gacgtcgcgc tcgtcgtgtt 240

ctccggcacc ggcaggctct cgcagttcgc gagcttcagt gtgaatgacn atcgtgacaa 300

g 301

<210> 20824

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-E6

<400> 20824

cccacgcgtc cggcctctc gtctcctcgg tctccctcc ctgtcttcca gagacgcaga 60

gcagggcgct cttcggtcgg aggagaagcg cgaccacgac catgggcttt atctcgttcg 120
tcggccgggt tctcttcgcc tccctcttcc tcctctcggc ctaccaagag ttcattgaat 180
ttggaaatga cggcggacct gcagcgaaga ccttgaagcc aaagttcaat ttgttcgtca 240
agctagtgtc caagaatact ggactggggc tgccgcataat ggatataaaa actgtcattg 300
cagctaccat gtttcttaaa ggctttggtg gtcttctgtt catagtcagc agtcatttg 360
gagcattcct cctgctcatt tacttggcgt ttataacccc tatggtgtat gacttctaca 420
accatgaaat ggagtcaaca ctgtttgtcg atcttttt 458

<210> 20825
<211> 462
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-E8
<400> 20825

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gctctctctg caactgcaac tgcaacgcac caagaaactg ccggcgatcg atcggggaag 120
gagataaaca tggcgcacgg gaagctggag gtctctctcg tctccgcaa gggactcgag 180
gacaccgatt tctcaataa catggacccc ttcgtgatcc ttacctgccg cacccaagag 240
cagaaaagca gcgtcgcaaa tggagcanga agcgagcccg agtggaacga gaccttcgtc 300
ttcaccgtct ccgacgacac cccgcagctc cacctcaaga tcatggacag cgacctcacc 360
aacgacgatt tcgtcggcga agcaaccatc cccctggagg ccgtgtttca agaaggcagc 420
cttccccgcg ggttcacccg gtcgtcagga ggagaagtac tg 462

<210> 20826
<211> 235
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-E9
<400> 20826

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ggatgttgga atagccatgc gaactcattc aaaagagaac gctgcctctg atgcagcttc 120
 agttgttcta ctaggcaaca gactttctca ggtggtagat gcgctatccc tgtcgaaggc 180
 aacgatggca aaagttcacc aaaatttggc ctgggcagtg gcatataaca tagta 235

<210> 20827

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F1

<400> 20827

cgacggcggc ggtggcagcc gtgtcgtcag ctgagtctag ctacgtcag ccacgccggt 60
 gccagccgcc ggccgccgac atcgcggtgg ccgtgttccc ctacgacgtc gacccgatgc 120
 agttcgcgct gaacctggag tacaccgagg ccgagttctt cctgcacggc gcgtacggcg 180
 tggggctcga ccacgtcgcg ccgagtctgg cgctggggcg cccgcctccg gtgggcgccc 240
 ggaaggccag cctcgacgag gtgacgaggc gcatcgtcgc ggagtttggc ctgcaggaag 300
 ttggccacat cagggctatc cagcgcacgg tcggtgggat tcctc 345

<210> 20828

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F10

<400> 20828

cggtgagccc ctgactgtcc agaggccagg aacacagact aggagtttct gctatgttgc 60
 cgatatggtt gatggtctta ttaagctgat gaatggaaac aagactggac cgattaactt 120
 ggggaaccca ggtgaattca ccatgctgga acttgctgag aatgtgaagg agttgatcaa 180
 ccagatgtg acagtgacaa tgaccgagaa cactcctgat gacccccgtc agaggaagcc 240
 ggatatcaca aaggcgaagg aagttctggg atgggagccc aagatcgtcc tgcgggacgg 300
 cttggtgctc atggaggatg atttccggga gcgcctgacc gtgccaaga aaaccaaggc 360
 ctgaa 365

<210> 20829
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-047-Q1-K1-F11

 <400> 20829

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 ggtgtgtaac attattgaag gcaagattcc atctgggtcaa gacaacatca aaagtgaagt 120
 caatgaaaat ttattctcca actaccctgt tcttgatggt ggaactggaa atggtcttct 180
 tttgcaagca ttggctaagc aagggtttac agacttaact ggaacagatt acagtaaagg 240
 agctgttgaa cttgcaagaa acctagctgc tcgtgatggc ttctcttcaa taaacttttt 300
 gggtgatgat gtacttgaga c 321

<210> 20830
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-047-Q1-K1-F12

 <400> 20830

 attcgacgga cgacgtcacg cgtggcccta ctcgtgggtg aaacacgact tctctttgat 60
 gtcaagacat gccaaattgc gtgcaagcgt ccaaagcaaa cagatcactg tacctgggta 120
 tattcctttg aggaacaccc ttgaccagt gaagtgggaa tatcttctcc agctttatat 180
 gatggattgg ttgagatcaa acaaccaa atgacattcctg caattaatgg tgccacaacc 240
 tgcagtggta gttcagtgat cccttgcggt aatcatgata aatcaatttt agtggcaagc 300
 ttacacatac ctgattgggc gacttccttc cctgggttatt ttcaagactg tgggccagtt 360
 gttacatata gccatgttga tgacattggt tcgcctagaa aggggtgtgcc aattggacct 420
 gagcaccatg ctgacattcc aaaattgatg cccctaaact ctatgattgt 470

<210> 20831
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-047-Q1-K1-F2

<400> 20831

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actcctccat gcgcctaggg gttcctttta tagccccaag gcagctagga gccgttgagt 120

gcattccagg aaggcaattc ttgccttctg tcgcctggcg caccggacag tccggtgcac 180

catcggacac tgtccggtgc ggattttctt ccttatttgg cgaagccgac cgttggcgct 240

ttggagccgt tggcgcaccg gacagtccgg tgcccccttc cgaccgttgg ctcggccacg 300

tgtctcgcgc ggatcgtgcg gccgaccgtt ggctcaccgg acagtccggt gcacaccgga 360

cagtccggtg aattatagtc gtacggcggt aattacttcc cgagagcagc 410

<210> 20832

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-F5

<400> 20832

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cggcgctgct gctgctggcg gcgggggccc ggacggcgctc ggccggcggtg agctgcggcg 180

aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240

ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg ngcgtcgctc gcggcggacc 300

ggcaggccac ctgcaactgc ctaagaagca tgacggcccc gctcggcggc ggcgtcggca 360

tgggccaacg ccgncaaaca tccccggcaa gtgcgcgctc tccgtcggcg tgcccatcag 420

ccccaccgtc gactgcacca agatcaactg atcgatggaa cc 462

<210> 20833

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F6

<400> 20833

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 tgcattgcatt gcggagagta ataaattcgt aaacgggtgta tcgtggatgc atgttgccgc 120
 gagcagagta cgtaggcatg aaccgatgtg tgcgcttctg tctgtgtact ctctctatgt 180
 agtaatgtgt ggccagtggg tgctttgatc cagatgtatt cgctcgtgag tggtgagtca 240
 tggaagttga tcgtttcagt atcattaccg tgtattctct cttttacatg cgattctgaa 300
 aagggacctg cacgaagttc cagtatac 328

<210> 20834

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F8

<400> 20834

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 gctctcagct tcatatcagc tagctatttg agatagcaat tgccgacagc ctaagcagaa 120
 gaactagaat agcttggttt ctgcatgcat gttgccggtc ccacaaatgc gcggccgggg 180
 cgcattcttt cgcagtcctc actagctagt tcatcgatca tccattcctc cttgcttgca 240
 ctgcacgtcg atcttgctat tcctttgtca gcctgacttc ttgttggtta tctcgatggc 300
 ttccgctagc tcgtcgatct tggcgccggt gacctcctc acgaccttc cgcccttgag 360
 gatc 364

<210> 20835

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-F9

<400> 20835

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 cgcgacgcga ccggtgcatg gatggggctc ctgaaccagc tgtgggacga cacggtggcc 120
 gggccgtgcc cggactccgg cctcggcaag ctccgcaagt acgcctcctt ctccccctcg 180
 tcgtcgtcgt cggcgccggt ggcggcggt gggcgggcgg gctccgcgcc gacttcgggc 240

gccgtgacgc ggagcttgac catgctgcgg c

271

<210> 20836

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-E12

<400> 20836

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tcaagcgcag aatcatgttt accagaactt tgggtgaccag acagatgtgc tctttaatgt 120

accaaaggaa cacatgcaat tttcaccaca aattttaagt caaaataccg atgatggctc 180

gtttaatgcc cctgaatatg tagtttttcc aaatgggggg agcaacttca gtaattcaca 240

tgctagtaag ctggcatctc atagcaatat caagttttct atgcagccac cacatggtaa 300

tttaaacaag aaaggatctt tgatgagctc acctggatca gattctcact accataactt 360

gaatggtgat agccatggca ttgat 385

<210> 20837

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-C4

<400> 20837

caccacttct tcaaccacca caagaaggac taggagcagc ccgccggcga gtacgggtac 60

tgcgagaccg aggtggtcac cgccaccggc gagggcgagt acgagaggta caagaaggag 120

gagaaggagc acaagcacia gcagcacctc ggcgaggccg gcgccatcgc cgccggcgcc 180

ttcgactct acgagaagca cgaggcgaag aaggaccccg agcacgcgca caggcacaag 240

atcacggagg aggtcgctgc cgcggcggcc gtcggcgccg gcggctacgt attccacgag 300

caccacgaga agaagaagga ccacaaggac gccgaggagg ccagcggcga agagaagc 358

<210> 20838

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-C5

<400> 20838

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gtaggcggttg ctgggtctggg aggcgaaacc gaggcgcacc cttacgtctc cttcaccata 120
aattttgtct gagaccaagt atggttccta gaccgtctgt ggcctagggc cctaggcaat 180
ataatacttg gaagcagcta ttggaacgca agcgcggaac gagcatgtat attactctgt 240
tgatttatcg gttcatgtgg tcctgtagtt catatcacag agagatcagc cgacggatgc 300
tgtaatttct gaggaaccta tgggaattcct gtagttcacg tggtcctgta atttctgagg 360
actacctacc tatntccctg cagcactgca cctttgtaaa agacttaacc cgtgtctgta 420
gcaacttgc 429

<210> 20839
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-C6

<400> 20839

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ctggcgcgcc gtccccacca gaaccgggct gatgcgggtgc agcaagagct gccggcttcg 120
gtggaccaac tacctccggc cgggcatcag gcgcggcaac ttcacggagc aggaggagaa 180
gtcatcgtc caccttcagg cctcctcgg caacaggtgg gcggccatcg cgtcgtacct 240
gccggagcgg acggacaatg acgtcaagaa ctactgggac acgca 285

<210> 20840
<211> 199
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-C9

<400> 20840

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tcagcacttg ctatggcatt caacacatat ctgttcagtg caatcactca ttatagtaat 120
 gcgcatgctg cagtatactt cggagccggg tatatggagn cttcagatgt tttcaggctg 180
 ggttttataa cagccttgg 199

<210> 20841

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D1

<400> 20841

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 gttccgctgc gcagaagaag atggcaattg tttgcttgat gctgctggcc gtcgtcggcc 120
 aaatcgctgc tgatgctgat gttaccgtag aacatcccag ccgcatctgc accgaaacgg 180
 tgattgatcc tcgtgttccc aacaacgagt gcatctgctc caagaactgc gcctgtgccg 240
 gcaagtgcac ccttgagtcg cctgatgctg tccagacctg ctttgtcgac tgcgtcctca 300
 agaacgactg catctgcagc agcaagatca tctctggcgc tgacgacca aaggctaattg 360
 ccaagtgaag tagtactgct atcatcatcc ccaataatgg cgtacgta 408

<210> 20842

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D11

<400> 20842

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 agaaaaggag atcaaagaga aaaagtcgtc aggaaaaaag gtgacaaaag gtaaaggaga 120
 atcagctgaa gcagttcttc ccagcaagga cgatctgagg aagaccatta ctgaaatcct 180
 caagaaagtt gacttcaaca cggcaacttt cagtgacatt cttagaagc tcgacaatca 240
 ctacaaaatg gatc 254

<210> 20843

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-D12

<400> 20843

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gctcctcgcc gatcgatgcg atggccgtct tctccgacct ccacaccgcc gacggcctca 120

agtcctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180

atgacattaa ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaatagccg 240

cccgtggta cgagaccgtc tctgcggctg tagcctcaag attccctggt aaggctgttg 300

gtgtaaactc gcctgcggga tcagctcctg cggcagctgc tcctgcggat gaagctgang 360

atgatgatga ccttgatctt tttggtgatg aaac 394

<210> 20844

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D2

<400> 20844

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tgaacttgag gacttcaaat atgaggagaa ctccaaaaaa gcagtacaat gcttgaacaa 120

tatggtgact gatgcactga ttcatgctga agagtgcctt cagtacatgt cagccttgaa 180

ggatcctgcc attttccgtt tttgtgcaat accccagata atggcaattg gaacatgtgc 240

tctttgctac aataacgtgc atgtcttttag aggagtgtg aagatgagac gtggtctcac 300

ggcacgaata attgacgaga caaactcaat gacagatgtc tatactgctt tctatgagtt 360

ttcttcatgg atagagtcaa agattgatga 390

<210> 20845

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D3

<400> 20845

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cgtgagcggc tcgtcactgt tcgggatggt cgctttgaag gaacgcccga agtggatgaa 120
catcacctcg cttgacgagc tcgagacaaa agtggggcac gtcacgtga tgattctact 180
tgtgaagatg ttcgagaaga gcaagatggt gacgatagcc acggggctgg accttctcag 240
ctactcgatc tgcattctct tgctgtcagc ttctctctat atcctgcaca atctttacaa 300
gggcgaccat gaggagtgc aagagtgcaa tgc 333

<210> 20846

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D4

<400> 20846

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tgctgaccaa aaaaatgtct gatttatctc ttgagtggcg atcagattta tcgaaaactg 120
atgtctggta tgccagtttt ggatcaaaca tgtggagacc aagatttcta tggtatattc 180
aaggagggaa ggctgagggt atgaatatac catgctgcgg atcacgtgac acaagctcac 240
caaaaggaac cgtgtggaag actgtacctc acaggttgct tttcggtaga tcgtctaccc 300
cttgttgggg aactggtggt gtggcttttc tcaaccctga gataaactac aatgagaagt 360
cgtatgtctt gcatg 375

<210> 20847

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D5

<400> 20847

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gccatggtag atatatctaa taagccaccc agctgccaa acgtaaagga ggccccgagc 120
agtgcattt tgggaaatga tgaaaattca gacaccgaga agactcctgc tgccttgcac 180
ggacggctga acaccgaact tgctcctagt ggcagaaata cagaatttag tgaagctgac 240

actggaaaac aagagacacc cgtgtctgct gaggctatgg tagaatcatc gagcgagcct 300
 cgcagccatg aaggcaaaga agctcaaccc ctgaccttgt ctgggatgat gaaaaagcga 360
 agtcgcaagg ctgctggtgt gcggaacttt ttgagatgca 400

<210> 20848
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-D6
 <400> 20848

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 gatcgaccga ggctcagaag attgaagaaa gaaccttgaa gcagcttact ctaagaccta 120
 ttacacctcc agcaagcaaa tcttctgctc ttagttcttt gaaaataaaa ggtacaaggc 180
 ttggagatca tcctactggt cctagtaaga cctcacaact attaaaaata cagtcagcca 240
 acactttctc tagagctcca gttaaagcag atgtttcaaa gctctctcag ccaggaagct 300
 tccaagttct cagtcgagag caaaacggta ctgcacacac cgncaaagac tgtcctgtga 360
 aacctgtgag tccttcaact cctttggcgt cgctggaaac acagaaaaaa acagtggcga 420
 gccaaaagtt gaagtttggc accaatgaaa g 451

<210> 20849
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-D7
 <400> 20849

ttcgagggat gcagtaacca tgaatcagct tgatagcagt aacaaatttg cttgacttct 60
 gacgagtaag aaattggcag caagttgagc aggggccaga ctaataaatc agcttgatag 120
 catccttgca gcggtgcctt ggactttggc ggttagaaga ggtttataat tttatatgat 180
 gaaattatgt gcatcttcag ttgtttttgc ctactgctc tgtaaggaca tataaaattg 240
 gtatttgtac tttctaaggt tctccttgga atggtagagt tttacaggga accttccatc 300

atcagttgct gacatagctc gaactcgacg tttcttcttc gccagttgcg gctctggata 360
aactcgaagc tgacctatcc aagtctgacg acggggccctt ctttctaggc caattcagct 420
tggcngatgt agcgtacatt acgatttctg g 451

<210> 20850

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D8

<400> 20850

cgggccgcgt cgtcgggacc tacgggtaca tggcgcccga gttcgcgttg gacggcgtct 60
gctcggtgaa gtcggacgtg ttcagcttcg gggctctcct gctggagatc ttgagcgggc 120
aacggaacgg cgctttgtac ctcgaggaac accagcagtc cctcatccaa gacgcatgga 180
agctgttggg gtgaagaccg cgcggccgag ttcattggacc agtcgctggg gcggtcctac 240
tccaaggacg aggcgtggcg gtgctaccac gtcggcctgc tctgctgtga ggacgacccc 300
gacgtccggc ctaccatgtc caacgtcctg ctcatgtca tcagcgacca caccaagtta 360
cccagagccag ccattgccgc cttgttcgcg 390

<210> 20851

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-D9

<400> 20851

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tggggccggc cccaaactgc gtgtggcaaa ggcacgaaag gcatttgacg atatggtaga 120
tgccagtggc tatgcctatg ccgtgatgcc atcgccaag ggtcttgtgc cagagactca 180
ccctcacttc atcggcacct actggtgcgc agtcag 216

<210> 20852

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-E10

<400> 20852

cacacacaga caagtggttt ccaaagccaa gtgtgtgtac tagcaaccag ctagctcggg 60
cggcagcagg cagccatcat gtcggaggag aagcaccacc acttcttcaa ccaccacaag 120
aaggacgagg agcagcccg cggcgagtac ggggtactccg agaccgaggt ggtaaccggc 180
accggcgagg gcgagtacga gaggtacaag aaggaggaga aggagcacia gcacaagcag 240
cacctcggcg aggccggcg catcgccgtc ggcgccttcg cactctacga gaagcacgaa 300
gcgaagaagg accccgagca cgcgcacagg cacaagatca cggaagaggt cgctgccgcg 360
gctgacgtcg gcgccggcg ctacgtattc cagcagcacc acgagaagaa gaaggaccac 420
aaagacgccc aggaggccca cggcgagaag 450

<210> 20853

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-E11

<400> 20853

agaaagttgt ggatgagaac cttgagaagc tgaagaaggt gctagagggtg tacgaggcac 60
gcctgagcaa gtgcaagtac cttgctggag acttctctcag cctcgccgac ctgaaccatg 120
tgtctgtcac tctctgcctg ttcgctacca tggctccgat gaagctgtac ggngcgggtga 180
tgtcgtggaa cgtgacgagg tgcgcaacgg cgctggagga ggctggctcc gactacgaga 240
tcgtgcccac caacttcggc accggcgagc acaagagccc cgagc 285

<210> 20854

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-C3

<400> 20854

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eggctaggac gacgacggca atggtgcagc ggtacgaccc acagacatgc tggatgcagt 120
 ctcgggtcgca tgaactgagc aacggggccga caatggagca gtatagccgc ggagatgctt 180
 ggcagaacct cgagcgtgga gtcgagcccc gtgtgaccgc acgcgaggcc tacgcacctg 240
 caccaggaca cgccagcaga tcaagccatg ccgtagtcgg ctgcatacga caaacccggtg 300
 gctcaactcg acgcgaactc tgtgcgagcg aaactggagc tc 342

<210> 20855
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-A10

<400> 20855

tgcaccagcc ctatggcact atataatata taagactagg gggagaagtt ttccttcccc 60
 cggaaggcac ggctgtacat attatattag ggattgggtg gttgtttgtg caggcatttt 120
 tgtatgcatg atattcggcc tgtatgggt 149

<210> 20856
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-A11

<400> 20856

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 tgttggctcg aactcatggg cagccagcat caccaacaac tgtgggaaag gagatggcaa 120
 acttcgcggc cagattatct gatataggaa agagtttctc agaggtgaag atactaggga 180
 aatttgctgg cgctgttgcc aattacaatg ctgatgtggt tgcatacct gaagttgact 240
 ggcctaaggt ggcagaagag ttngttagat ccttgggttt gcagtttaat ccctat 296

<210> 20857
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-A12

<400> 20857

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gggtcaagcct tcgcggaagg cagtgaacgt gccgtcgctc tcttcggcga ggccccgctg 120
acgatgcgca agacggcggc gaaggcaaag cgggcggcga gctccggcag cccgtgggtac 180
ggccccgacc gcgtgctcta cctgggccccg ctgtccggcg cggccccgag ctacctgacg 240
ggcgagttcc cgggcgacta cggctgggac accgcggngc tgtcggcgga cccggagacg 300
ttcgccaaga accgggagct gga 323

<210> 20858

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-A2

<400> 20858

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aaaatacaca ataaatccag caatggtgaa cgggttttca gactttgttg gttctgttga 120
gggtgggaaaa ttagctgacc ttgttctttg gaaaccatct ttcttcggcg ctaaaccaga 180
actggttgta aagggaggtg caattgcatg ggctaacatg ggtgatccca atgctagcat 240
tccaacacct gaacctgttg tgatgcgacc tatgtttggt gcatttggaaggctggaag 300
ttccaattca attgcatttg tgagcaaggc tgctaaagaa gctggtgtcg caacggagta 360
cagac 365

<210> 20859

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-A3

<400> 20859

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gagcatggct agtgctagag ttatgcggga tagcgatgga aaatacaggt gtgacggatt 120

tgtcaagtat caaaatgcac atgctgctta tcaagctggt caagagttga atggcagcat 180
 attcattgat taacaactgt atttcgaatg atcacataac aactcttaaa gatagattga 240
 ttcgaacgat aaatttgaca tgaatgttca ctaggtagct caaaagtttc gcatcacaga 300
 cttgtatttg aagaacttac aggagaacat cgat 334

<210> 20860
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-A4

<400> 20860

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 agagctctac atgaataatt tggcacatga tcttgctagg tcagttgctg gtgaagatat 120
 ccttgatgac ttagatgctg agaatgtacg ctgcaataga aattatgatt accgttatgc 180
 acaagtgtca acttctagct tacaatcaat agatagcaag gcttggcctt ccaaggcaag 240
 gtcactagtt ntcaagtcaa gtgcagaatt gcagcatgtc agcgaagtgc tttcagtga 300
 caaatatttg cgtgttttgg atatcagtgg gtgttctgtg aaggagatgc ccgctccaat 360
 ttttcagatg aaacaactga gatatcctt 388

<210> 20861
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-A5

<400> 20861

aattccctgt ccattgccccg ttattcaaga cggcagcacg catgacttgc taccctccgg 60
 cttgtgcact tcgacagcct acttaccggc gaagccccctt ctaaacc 107

<210> 20862
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-A6

<400> 20862

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cacaccacac catcaacgga tgcaacatga ggccggggga tatatttgcg actggcacac 120
tgagtggacc tgaaccggac tcctcgggt gcctgctgga gctgacatgg aacgggcaga 180
aggagatacc ggtggggagt ttgaccgca agttcctaga agatggagat gaagtcattct 240
tgacaggatg ttgcaagggt gaaggctaca acattggttt tggaacctgc accgggaagg 300
ttctgccggc acttcctga gccaacacgt cttggtatca gttctccgga gtctcaacga 360
tctcagctat cagagagttg tctcaacggt ctcaactatc aaagagttca tgc 413

<210> 20863

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-A8

<400> 20863

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acgaatctgg gtagtgagca caagacaggg tctggtcagc actcggacac aaaagatctt 120
ggtggtaatg gcactagcag taccggtgct tcatcagaca gaggggtcaa gaagaaaagg 180
gggaaaggga caggggtctac caaagggtga tcacttgaaa aggatgatga caatgaagaa 240
agcattcctg ttaagggcaa gaaatctcac agganaaaca aggatgcntg tgcattctgt 300
gacatnaaac atggtggtaa aaaaacgtca gagaaaatga tagaggagaa tgcaaatatc 360
tttcctgatg aatngataga agaaaaagtt ttggcttggt ctccagagtt agaagagttg 420
ggaagctctg atgactcaaa tgccccctt aa 452

<210> 20864

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-A9

<400> 20864

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gcgccatggc cgagccggca gagcaccgtc cagcggagga ggaggaggcc gcggcggccg 120
gcgaggatga ggacaccggc gcccaggtcg cgcccatcgt gaagctggag gaggtcgccg 180
ttaccaccgg agaggaggac gaggacgcgc tcctggacat gaaggcgaag ctctaccggt 240
tcgacaagga ggggaaccag tggaaagagc gcggcacagg cactgtgaag ctgctcaagc 300
acaaagaca 309

<210> 20865
<211> 384
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-B1
<400> 20865

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tcgcgtgtga ccgagatggc gctgccgaat caggggaccg ttgattacc cagcttcaag 120
ctcgatcatcgc tcggcgatgg tggaaactgg aaactacat ttgtgaagag gcctctcact 180
ggagagtttg agaagaaata tgaaccaacc attggtgtgg aagttcatcc gttggatttc 240
accactaact gtggtgaagat caggttctac tgctgggata ccgcanggca agagaagttt 300
ggtggcctca gggatggata ctatatccat ggccagtgtg cgatcatcat tggtgatgta 360
acctcaaggc tacttacaag aatg 384

<210> 20866
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-047-Q1-K1-B12
<400> 20866

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agtgaggtgg agtgtcaaat tggaaaggccg tatcgagtgt tctgccgcta taactggtga 120
tttctcagag gttgttggtg gatgctataa agggaaaatt tacttccttg atatgtctac 180

gggaaaatta tcctggacct ttcaaacaga tggggaggta aaaatgcaac cagttgtgga 240
 caagatgagg aatttaatat ggtgtggctc gtatgaccat tacttgtatg cgtaaatta 300
 caaagatcgc tgctgcacat acaaagtttt ttgtggtgga agcattta 348

<210> 20867
 <211> 163
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-B3

<400> 20867

agaggagcag catgtgcacc aaaaggatgg cagcgccagg ctccctgcga ctttttcagg 60
 gcccgtactt cgctgcggtc aagtgccaga cgatgggtgg ncgtgcatcc gcgcgggtgag 120
 cgccaaggtc actgttagac gtgcgcgcct aggctgttga cgc 163

<210> 20868
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-B4

<400> 20868

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 ggggtgcgttc tatatagaat atgctacttc aagtctgcat ttgatggaga atccaagttg 120
 cagatactca atggcaatta tcgtatccct gagcaacca agtatagcac tgctgtcaca 180
 gggttgatca aagatatgct ggaagcctct ccaaattcca gaccagacat cacacaggtc 240
 tggtttcgtg ttaatgagct actgccgctt gagttacaaa aaagtttacc tgacggacct 300
 tcgccagccg tttccttgag tttgcaagat gaaggtgctc ataaaagggc acatgtgat 359

<210> 20869
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-B6

<400> 20869

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 tgcagtcacat gatgccacgc atccttgcca ggctaattgtg gtcgtgcggc aggaactcca 120
 cacccttgct tctgatcggt catgcactca tttggagttc gacattgctg caactggtct 180
 cacgtatgaa actggcgacc atgttggtgt atacaccgag aactgccctg aggtttaga 240
 ggaggcagag aggttggttg gctactcgcc agacacattt ttcaccattc atgcagacaa 300
 agaggatggc acttcactaa gtggcagttc tcttgctcct ccgttccct cccaatcac 360
 agtgaggaat gcacttgcta gatatgccga ctttctaaat tcaccga 407

<210> 20870

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-B8

<400> 20870

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 gaacagggtt aaagtatatg aaggcttgta ctgcatggca accagaaact tcaagaaagc 120
 tgccagctta ttttagact cgatttcgac tttcacaact tatgagatat tcccatatga 180
 tacgttcac tctatacag tctcacaag tgtcatcaca ttggatcgtg tatctctgaa 240
 aaaaagggtg gtagatgcac cagaaatcct ggctgtaatt ggcaaagtac ctcacctctc 300
 cgagtttctc aactccctgt acaactgccg gtataagtcg ttcttcgttg cattttctgg 360
 tctgacagag caaatcaagt tagaccgtta tct 393

<210> 20871

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-H9

<400> 20871

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 aggaaaactc tagcaggcac tgatggcact gaaccaaaca tcatcttga ggagtacctt 180

gccaatggga gatatacgga tgatgaggtt tatgtttttg atggaggaaa tgacagcact 240
tcaaattggtt ttgtcggtta atctattatg tcaactggcc agtattttga ggtggcagaa 300
ttgtatacag taacattcct ctgtattgtc tctcaagata gtgaaactgc tatctcatgg 360
gcagaaaagg ctcatctaac tgagcaaagc cggcaggacc tactaaaaaa gcttcatg 418

<210> 20872
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-047-Q1-K1-C1

<400> 20872

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cctgcctgcg acaaaagcaa aacctagccg ccgcgggcgcc gcccgccgac ctgccgtgcc 120
gactgctgag tgccgaccga cgtgcgcccg ctgtccgctc gacgttggtg gcctccctcg 180
acgccgctgg caggtggccg ctcgacggag tcgacgcctc acagcctccc tcgacgcgac 240
gccgctggcc actcgacgga gtcggcgcct cacagtcaca gtgagatgtc agaatacaag 300
aacgtcgttg gggggaggct aaagctgaag ggtaggcact ggacgtgaag gaaggtggag 360
tcaagaagaa naagaagaag catcaactcg aagagtcgtc tcagattgag cacgatgagc 420

<210> 20873
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-C10

<400> 20873

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agtaatggtc tatgctcact ctatccttgc gctagcctct atgaccggac ctaaactggg 120
gtgtgagaaa cattcacgac tc 142

<210> 20874
<211> 111
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-C11

<400> 20874

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atgggggtcgt ctgangccga cgaggaccag ctctcaaga gcttcctcgc g 111

<210> 20875

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-047-Q1-K1-C2

<400> 20875

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tgcagtagct aaaaagaatg cgcaaaaatc tttgtacgat tgtgcgctgt cgaatctctc 120

tctgctgtgc acacgcgcgc aggagcatcc gggcatgtcg aagggcgaca agaagcggct 180

gtgcgcgctg atggactgca ggaagctgac ggcggacgcg agcgagcacg ccgtgcagaa 240

cgagcggctg cccctgcgcg tgggtgtaca ggtcctcttc ttcgagcagg tccggcagtc 300

ggcggcggca gnetctggcc gccccgcgcg ctgcctc 337

<210> 20876

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G10

<400> 20876

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gttgagcggc taagagtctc atcatcactg gaaggtagac atcgactgga aaatggtggc 180

atacgaagtg atgatggtga aggcgatgca tcttcaagtt ttccaatatt tcagtatatg 240

gagagggatc ctccatatgg tagagagcct ctgacagaca aggtatcaac tcttgacac 300

agatttccag ctctgaagac attcaaaagc tgtgatcttc tgccatcgag ctggatgtct 360
 gttgcatggt accccatata tagaattcca acagggccaa cattgaagga tctcgatgcc 420
 tggtttttga cattcca 437

<210> 20877
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G11

<400> 20877

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 aatgggttcat tctcaatgta gtctggcaaa taaagcatca ttgagaatca cgatgatcta 120
 ttaagagtct catcatcact ggaacgtaca catctacttg aaaattatct catacaaaga 180
 aattattctg aacatgatac atcatatagt tataacaatat ctactatat gtagagtgat 240
 cctatcatat agtataaagc ctatcacata caacgtatca actctcacac acatatttac 300
 agctctcaag acattcactt tctgttatct 330

<210> 20878
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G12

<400> 20878

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 ggtcctgaag cattcaaaga ggagaggata aactaattcc ttaaccttct tcaccatgct 120
 cgccaagttg tatcaattac tcactatcca atccatcggc tatatactta cctcctagat 180
 gatatgcatg ctaaacaatgc ctactcatgt actaacatat atctttccct aaagtgccta 240
 gatccacaga gtaatgcact attgtcttac atgaagattt cgaataacat 290

<210> 20879
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G2

<400> 20879

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ctcaactaat ctacatcggc acagttaata aacaaaactg tcatacacat ccatcttcaa 120
ttacttccaa acaatgacta ctctcaacaa ctactt 156

<210> 20880

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G3

<400> 20880

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taaaactctc acacacatcc aacttcaatt actacaaaac aatcactcct ctcatctcct 120
acataccctt tttcctcaat cccatactaa ttcttttcat acttatacct ttcacctctc 180
atctcctcct acctccaata ttacactact cctcaatcta tatttctatt caccttaact 240
tactccattg tctacaaata ccctccccta cta 273

<210> 20881

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G4

<400> 20881

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cctccagggc ttcttggctt tcaatgccgt tgggtggcgg accggctctg gccttgggtc 120
tctcctcctt gagcgctgt ctgtggagta cggcaagaaa tccaagctgg gcttcactgt 180
gtacccatct cccaggtgt caacctctgt tgtggagcct tacaacagcg tcctctccac 240
tactcactc ctggagcaca ctgatgtctc tatctgtctc gacaacgagg ccatctatga 300
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gtctcaagtg atctcatctc tg 382

<210> 20882
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G5

<400> 20882

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gtgagcagca gacagcagca gctgctgcc tggaggcgtg gagatctctc ctgcgagct 120
tcgtgctcgc cgtgctggcc gcgcaggcct tgggtggctgt ggtcgagtcc aggaccggcc 180
ccgtggagca ggcgagccaa gcaggtgacg acgtgaagaa gccggactgc gtgccggggg 240
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cgcacggagg ctccagctcc ccgacgccgt cccacggcgg cggcggcggg tacgttccaa 360
cgccgtcgca tggcgggacg ctgccttccc cgtccac 398
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<210> 20883
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G7

<400> 20883

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tgttcaagaa agcctgtagg atcgatcgga tcggatcgga tcggacagag cgagctatag 180
ctagctaggg ctagctagct agatggcgag gctacgcctg gcggtggctc ccgtcgccct 240
ggccttgtgc tgctgcctca tgatccacgc gccgacgaca ggtgccgctg ctgccgccga 300
cgacgcctcg tttcctcctg gactggaggt ggcggcgag cagcaggata cccgagtggc 360
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<210> 20884
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-046-Q1-K1-G8

<400> 20884

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ctccatgcat ccaggagaac catggatttt tatcttttca tgaacagcaa agtcctcttc 180

aagacagtga ggaaagacgc cgggctcaag aagctaaagc cagtgattgt gcatttgaac 240

taccacccta acaaactaga gcgaatgaaa gcggttatcg agttctatgt caacggcaaa 300

caagatgcac tggatcattt ccctgacggg tcagaatgaa gaaattacag atagttgcgg 360

gtaaagaaac ctataccctc tggatcctac tcnattttgg ggtgtctggc cgttggatct 420

acat 424

<210> 20885

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-H10

<400> 20885

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ggtgagctgc ggcgaggtga cgtcgtcggg ggcgccgtgc ctcggttacg cgatgggcag 180

cgcggcgctc ccctccgcgg cgtgctgcag cggggtgcgc tcgctcaaca gccgcgcgtc 240

gtcggcggcg gaccggcagg ccacctgcaa ctgcctcaag agcatgacgg gccggctcgg 300

cggcggcgtc agcatggcca acgccgcaa catccccggc aagtgcggcg tctccgctcg 360

cgtgcccac agccccaccg tcgactgcac caagatcaac tgatcgatgg aac 413

<210> 20886

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-H11

<400> 20886

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gaaaaataaa tgggtggagag ggctaataatt gactattatt accttcgcgt tcgtgtttcc 120
 tgtttgctat tctctagctt cccctggccg acgttttatt actggttatt ttagacgatt 180
 ctcttg 186

<210> 20887
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-046-Q1-K1-H12
 <400> 20887

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 tatcaattac tggggagcca atccagcggg taggtgctta cctccttgag gggttggttg 180
 ctagacatgc aaactcaggt acaaacatat atcgtgccct gaagtgccgt gagccagaga 240
 gtaatgaact cttgtcttac atgaagattt tgtataacat ctgtccgtac ttgaagtttg 300
 gctatatggc tgccaatggg gcaattgcag aggcattaag aaatgaggac aggatccata 360
 ttattgattt ccagattgcc caagggacac agtggataac actgatacaa gcgctagctg 420
 ca 422

<210> 20888
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-046-Q1-K1-H5
 <400> 20888

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 ctctcgccg cggttttgat aatggtgaac ggcgagcagc gggcgagcgc ggagtgcacg 180
 cgggcgtcgc tgctggggag gtatgagatc gggcgagacc tcggcgaggg caacttcggc 240
 aaggtgaagt acgcgcgcca catcgccacc ggcggccact tcgccatcaa gatcctcgac 300
 cgagcaaga tcctctccct ccgcatcgac gaccagatca ggaggagat cgggacgctc 360

aagctgctca agcaccgaa tgctgtccgc ttgcacgagg ttgctgccag taaaacgaag 420
atctacatg 429

<210> 20889
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-H6

<400> 20889

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accaaccttt tatgaatgct gaactgctag caacatacgg actctaagct cactctaaca 180
tctatcatat tgagctataa cctcaagctg accctcttct agtacgactt agtcaaagtc 240
cattattcaa gcttattaat catcataacc cacttcta 278

<210> 20890
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-046-Q1-K1-G1

<400> 20890

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accgatcaac tgcaactctc acacacgtcc acctgcaatt gctgcaaaac aatggctcct 120
cgcagcgect acgtgcccgt gtgccttggt gccctgctcc tgctgccag ccttagaccg 180
tccagcgcgc ggctgctccg gccgccgatg ggccgcgacg gcgcaatcga tgtggctatg 240
gaggatgaagg acgccgtcgt cgacaagtac gcgccgctcc tnccttgccat gctgccgagg 300
gggccggcgc caccgtccgc cccgagcggc ggcaccaatg atatcccccg gaattaagga 360
accggtggcc gtagtagttg tacgtacacg catg 394

<210> 20891
<211> 306
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-H7

<400> 20891

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aactcaagaa ctgttcttat gcatgcagca gccataagca ttgtacttag ggtttcatgc 120

ggggcgaagc agttggtctc tgccgcctga acgccgccgg aatctgcgag gccnccccga 180

gctgcgtccg tcgtcagata aggcatcgt cggcacggca atgccgggtc cgcttgctcc 240

gtaccagct tctccggcgc cattcacgcc gcccaatgtg gcccaaagcc agctcgtctg 300

caccgg 306

<210> 20892

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-H8

<400> 20892

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cgctcactgg gttccccagg acaggatcct caccaccaac ctgtggtctg ctgagctctc 180

caagctcgct gccaacgcgt tcctggcaca gaggatctcc tctgtgaacg ccatctccgc 240

cctctgcgag gccaccggcg cgaatgtgac tgaggtggct tacgccgtgg gcaaggacac 300

gaggattggc cccaagttcc tgaacgccag tgttgggttc ggtgggtctt gcttccagaa 360

ggacatcctg aacctggtgt acatctgcga gtgcaatggc ctgcccaggg tggccaacta 420

ctggaagcag gtgatca 437

<210> 20893

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-E4

<400> 20893

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gcgcgtcttc gtctcgctga ctcccgcgt ctgcaggcat cccacctcc tcttctgctc 120

cccttgcccc ccgcccgcgc acatccgct cgcccttca accgacacac ccgcctcgga 180

cggaaacggc ctcggaaccg gcccgggtgt ctctctatcg ccgcgcgcgc tctcgagct 240

cgacgagctc ggggccttcc gctacgagca cgccttcccg cacggtctgc tactgtgcg 300

cgctctctcg cggggcccg acgacgagc cgtggctgag gcgctcgcc ggctnctgc 360

ctactcttc tccgagaccg tgcgtgggc 390

<210> 20894

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E5

<400> 20894

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atgttgagta ccgctgcttc gtcggcgcc tcgcctgggc cacggacgac cactccctcc 120

acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga 180

cgcagaggtc ccgcggttc ggcttcgtca cttctccac ggaggaggcg atgcggaacg 240

ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacctc aacgaggccc 300

agtcccgcg cggccgtgga ggccggcgcg gggcgggta cgggtgtggc cgtggaggcg 360

gcggctacgg cgggtggcgg cgccgtgatg gggcgggcg ctacggccgt ggcgg 415

<210> 20895

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E6

<400> 20895

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cctcgacacc gaaggccgc tgcggctcca ccggctacga caacgccgtc acgctccccg 120

ccgagggcag aggtgacgag caggagctcc acaaggagaa cattcagaac gccgtctcct 180
acaccggcaa catcacgttt agcgtgacca agagcaaccc gcagac 226

<210> 20896
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E8

<400> 20896

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attatttggg aagtacagag acatggcctt ggctgtgaaa aatccatgcc atctcaatat 120
ggctgcatgc ctgatcaaac taaagagatt cgatgaagct attgcgcagt gtagcattgt 180
tttgacagaa gatgaaagta atgtcaaagc gctgttcagg cgaggaaaag ctaaactctga 240
acttggccag acagaatcag cgagggaaga tttcctcaaa gcgaagaagt actccccaga 300
agacaaggag atcattcggg agctccggtt gctcgcggaa caagacaagg cac 353

<210> 20897
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E9

<400> 20897

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ggcacactgt acaagtcact aacctctcga gcagagtatc tgaaagtgat cttcatgagt 180
tcttttcgtt ctctggtcct attgagcata tagaacttat cagatcagaa ggatacgggtg 240
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gggctactat tgtggatcag ccagtatgca taacctattg gggacaacct gagggaaactt 360
ttaatttctg ggacaggcca acttgggaag ttgaagagga aatcgaatac aggaactacc 420
aaacatg 427

<210> 20898

<211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-F1

 <400> 20898

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 cctcctttct ctcatgtttc tcgttgctgt cacagcagcc gctgttgctg ccgatccaca 180
 tccacagcag gtggtactac gcctactctc ctcttctcct cggcatcatc caaactgaat 240
 cagattgaag aatcatcagg tcattaacat gttcagtgtg tgtccagcag gtgcaagtgc 300
 agcagcagca gcaagcacag atgaggatta acagggccac cagatccctt c 351

<210> 20899
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-F10

 <400> 20899

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 ccttgccctg cctgctgcc accggtcttc ccccaatccc tcccaccacc accagattcg 120
 cctgccttc tcgacgccc tccctcacc ttgatgccac gccctccttc catggcgcca 180
 cgcccgcgcc cttaccacc cgtccgagcc gcgacgctga ccc 223

<210> 20900
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-F11

 <400> 20900

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 tttgggtggg acaaggacct ggccaagaag atttgggtgt ttggacctga gaccactggc 180

ccgaacatgg ttgtagatat gtgcaagggga gtgcagtatc tcaatgaaat caaggattct 240
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 ggaatttgc ttagggtctg tgatgtcgtt cttcatgctg atgctatcca caggggtggt 360
 ggtcagggtca ttcccactgc caggagggtc atctatg 397

<210> 20901
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-F12

<400> 20901

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 tccggttgcg ccgtggccgc atccgccaaag tggcggagcg actcgctcag gtcgttccag 180
 tactacctgc accgttacac gcctaacgt actgggcgggt ggctcggcac gctcgacacc 240
 gctgcaatct actcgctgac attctacatg gcgcaaggca ttctaca 287

<210> 20902
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-F2

<400> 20902

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 agcttcgtca agaccctcac tggaaagact atcacctcag aggtggagtc ttctgacacc 120
 attgacaacg tcaaggccaa gatccaggac aaggagggca tccccccgga ccagcagcgg 180
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 aaggagagca cctccacct tgttctccgc ctcaggggag gcatgcagat cttcgtcaag 300
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<210> 20903
 <211> 376
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-F3

<400> 20903

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ccatgaccaa cttgtgaaga ttgcaaaggt ccttgggaaca gatgggttga atgcttattt 180

gaacaagtat cacattgagc tggaccctca acttgaagct cttgttggaa ggcatagtag 240

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<210> 20904

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-F4

<400> 20904

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tgcttgccag tgtgagcgtt gatagacgaa aagatcctct gtatgcatgg tggctctatct 120

ccagagttga acaagctcga acaaatactt aatctgagtc gcccacaga cgtgcctgat 180

actggattgc tctgtgacct tctttggtct gatccttcta atgaagcaac aggatgggcc 240

ataaatgata gaggtgtttc atatacattt ggtcctgata aagtttctga attccttgag 300

aagcatgatt tggacctcat ctgccgagcc catcaggttg tcgaagatgg atatgagtnn 360

ttcgctagcc gccaaactcg tacaagtgtt tcagccccta actactgtgg agaattgata 420

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<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-F6

<400> 20905

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gcgcctggcc gcgctgatcg gcccgaggcc ggcgtccgc gtggtgcgcg gcgcgctggt 120
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gcggtcgcgg gagttctcgc tgccggacta cgtcacctac ctgctgtcgg agtacgcgca 240
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catcggt 308

<210> 20906

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-E3

<400> 20906

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<210> 20907

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-F7

<400> 20907

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gtccttgcaa catatctgtt gaatgcttat ttgaacaagt atcacattga gctctaccct 120

taacttgaag ctcttgttgg aaagcatatt ataaaaccct ggtcaaagtt cattaatgct 180
gataaccaac atctagtatc accttacgcc at 212

<210> 20908
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-F8

<400> 20908

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gttccatgac ctaatgaagc tcttcgagac cggggggccac gttccaaaga cgaactatat 360
tttcatgggt gatttt 376

<210> 20909
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-F9

<400> 20909

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cggtttagct tactcctgct atatttcaac atacttcct cacaaatc atgcggttat 180
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aatacattga agaaagttct catgc 325

<210> 20910
<211> 210

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-C8

 <400> 20910

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 tcacgccttc accttacgtt ctttggtgta tcgaggagtt taaaaatgat gacttctcgc 180
 tctgcaaata tgtatagaga atcaaaatgt 210

<210> 20911
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-D1

 <400> 20911

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 gtaatttgat ggttcacaat aatgagtcct tctccggacc ttggtagctg cttgcttgtg 180
 gtgagtgaga gtgtgagact gagggagaag aggtggtggg cgtggggcta cgtcgagaga 240
 ggcgtgttcc tgtaatcctg tactcgcttc gttttctctg catgcgtcta taattgtgtt 300
 caataataag tgagagcggg gtgatgtgtg gctcc 335

<210> 20912
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-D10

 <400> 20912

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 aatttctaca ctgatcagaa cctcaagttt tctaacagtc aactttctta gctgcggaac 180
 gagtaataca acagagtagc atacatatga agagctagtg gtttatttga ttctcttgtg 240

catgctctta aaccaacttt gcttatatgg tggaagtgca taatttcatt tc 292

<210> 20913
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-D11

<400> 20913

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agaacaaggg agctgagaac attgttcctt ccactgattc atcacttgct tcagatgttg 180
gtgagagctc ccgttcagtg ctctatccag ttgatacgac tactgtgaac tcagtgtcat 240
ccacgtctac agtggctggg accccagttg aactttctgg gtatcaggag ggtgctccag 300
tggtatgttc ttcattgtta acagctgatg ttcagaacaa tgtgacatct gatatgccag 360
gtgcttcgga taacgagggtg cttcctccag aacctgctga tgtctttttg cagtctgaaa 420
gaatcact 428

<210> 20914
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-D12

<400> 20914

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cccagaatta tctcaattga aggaattcac aggagctttt acacctgatc tgaagggctt 180
ggctattagc aacagcgaat ctatccggac atctcataac agctttgcaa ggccagagcc 240
atattttct gatgagcaga gggccgcgac taaagatgat gatgtttacc atttcataag 300
ctatttacct ttgaaagtg tcctgtatga gctggatgga ctgaaagaaa ggctgtgaa 360
tcttgggcaa tgcgatggtg 380

<210> 20915
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-D2

 <400> 20915

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 gtcaagggga ctcaatttga tcttgtggaa tatctacaac gagaaaggca aggggtctgct 180
 cgtctagaga attttgcttc tgcactcgaa ctgattggac aaaagctcca aatggataca 240
 ctgcaaagtc gacttgatgc agagttcctt ctagctcata tgtgttcagt caagtttaag 300
 gaatggatcg tggtgctagc tacttta 327

<210> 20916
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-D3

 <400> 20916

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 gtcgctcagg tttcgagggg cttcgcgctc caggccgcta agcccaccgg gaaggagatc 180
 aaggttccaa aggctctggt tggcggcaca ggcaactatg ccagtgcact gttcctcaca 240
 gcagctaaat ctaatgcatt ggacaaagtt gaatctgaga ttaaagctat tgtagaggct 300
 tccaagaaga gcccgttggt ttctcaattc ataaaggact tgtcagttcc aaaagcgacc 360
 aggggtgaagg ctatagccga aatatttgct gacgcctggg tttcagat 408

<210> 20917
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-D6

 <400> 20917

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gatgattatg acttcgatga agctgacttt aaccagcacc ttgctgataa atttgatgat 180
ttggatcttc ctccaggcgt ggaggccacc gtaccttggg tgcagaaaac tacaccaag 240
gaagatgtca aagagccacc taaatcaaat actgcagatg agaatgcaaa taaatatacg 300
cagttcaagc agtttgatac tgttcaaaaa tttctctgac cattactacg ctaagaattc 360
tcatggag 368

<210> 20918
<211> 387
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-D7
<400> 20918

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tggactgata aggaagtacg ggctgatgtg ctgcaggcag tgcttccgca gcaacgccaa 180
ggacattggc ttcataagt accgctgaag tcagctgggc gggctatctg aatgccatct 240
cttggacagt gtagtagagg cgatgccaca attttaatta ctgtcattta gatgttcct 300
tcagaactct gctatttaag tccgccatgt ttgtgatgga gaactgaagc tttgtttgtt 360
atactgatta tgagttacct gtgcaaa 387

<210> 20919
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-046-Q1-K1-D8
<400> 20919

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atcatagctg acaatgctgg ttgggatagc gctgatttga tctctcagct acgagctgag 120

caccacaaag agaactccac tgctggaatt gatgtcatca caggcactgt tggtgacatg 180
 caaaagttgg ggattcaaga gtcgttcaag gtgaagcagg ccattcttct gtctgcaaca 240
 gaggctgcgg agatgatcct canggtcgat gagatcataa cctgtgcccc gcgcagaaga 300
 gaggacagga agtgatatta cacgctgttt ctcgatgaag cgggatgctc attacccctag 360
 ttttgagggg tattatgggt taggggcgct caagttggtc agatttcgag tgtttttggc 420
 ccctaagcaa ct 432

<210> 20920

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-D9

<400> 20920

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 cgcgcccttc tcttcgccgc ggtgtcctc ggggcctccg ccgccgcggt ctccgggttc 180
 cacctgggag gggacgagag cggctcctg aggggtgtgc tcgccgcgct ccgcgagcga 240
 gccgaggccg aggacgccg tcgcttcgcc gtcgccact acaacaagaa ccagggcgcc 300
 gctttggagt ttactaggtt gctcaaacc aagcggcagg tggtgaccgg gaccctgcat 360
 gacctgatac tggaggcagc tgatgctgga aaaaagagtg tgtacagagc aaaggtttgg 420
 gtgaag 426

<210> 20921

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E1

<400> 20921

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 ggtgggaccg gatgagcagc cccgcgtgcc ccgaggacga gttccgccgc gccttcgca 180

tgtcccgggc caccttcgag gccgtgtgcg aggagctggg cgccgccgtc gccaaggagg 240
acaccatgct gcgcgccgcc atccccgtcc gccagcgcgt ggccgtctgc atctggcgcc 300
tcgccaccgg ggagccgctc cgccctcgtgt ccaagcgctt cggcctcggc atctccacct 360
gccacaagct cg 372

<210> 20922
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-E10
<400> 20922

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catgcatggt tctgtattga cgatgcttaa gctttgtact gtattgtatc agttatgcaa 120
gacgattatg atttagttac acgaaatgca ctgttgtgat gctacttggg gtgcgccact 180
tttgggcctc gaatatgatt gtataagctg atgcattatt tattcacgtc tatgtcacat 240
ttaaatgttt tctt 254

<210> 20923
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-E11
<400> 20923

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atgaggaacc caggaatgat caggtgaaag aagatgttgc attggaaaca gagccatgtg 180
aaccagtatg gcctattggt gagcctgcta agatgcattc attgtcaatg aaagaagaca 240
actttacatg cttttagtga gaagaaatcc tgatacgtga ggtggaagat gggggaggtg 300
ctaatatcca ggaacgacca cttctgatgt tagaaaaggt ggagaaagta agaactacac 360
ttgctgattt atttgcagca gaagtattct catcaagttc tccaaggag tatagttgcc 420
aggatatca 429

<210> 20924
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-046-Q1-K1-E12

 <400> 20924

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 caccttcatt ggcaactcca cgtccatcca ggagatgttc cgccgtgtga gcgagcagtt 120
 cactgctatg ttcaggagga aggccttctt gcattgggtac actgggtgagg gcatggatga 180
 gatggagttc accgaagctg agagcaacat gaacgatctg gtgtccgagt accagcagta 240
 ccaggatgcc actgctgatg aggaggcgga atacgaggac gaggaggcca tccaagacga 300
 gtaaggggtg tttggggcct gccacatttg taccctnggt tcctttcatt ccggggcctg 360
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 tagcat 426

<210> 20925
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-C7

 <400> 20925

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 tacgaccctt tcgtcctcag cggagtcagc atcgaagccg ccgagcacgg tcgcctcctc 120
 tgctcctttg tcgtcacccc tcgccttgcg agtcccgcgg ggtacctccg cagcgggtgc 180
 acagcgacgc tcgccgacca gctaggatcg gccgtgtttt tctgcagcgg gctccctagc 240
 agcgggggtat ccctcgaaat cagcgtctcc tttgttgacg cggctgccgt cggggaggaa 300
 atagaggtcg agggaaagct gttgcgtgcc ggcaagtcag tcggtgtcgt ctctgtcgat 360
 ttcaggaaga aaaagacagg aaaactgatg ggcgagggcc gtcacaccaa gtatcttgtg 420
 gcatcaagc 429

<210> 20926
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-B10

 <400> 20926

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 tcagccatgg cggaggtgga gcagccccag gacgcggtga agctcttcaa ccgctggacc 120
 ttcgacgatg tccaggtgaa cgatatctcg ctgaacgact acctggctgt gactgcggcg 180
 aagcacgcga cattcctgcc gcactccgcy gggcgctact ccaagaagcg gttccgcaag 240
 gcgcagtgcg ccatcgtcga gcgcctcacc aactcgtcga tgatgcacgg gcgcaacaac 300
 ggcaagaagg tcatggccgt ccgcatcatg aagcacaccc tggagatcat ccacctgctc 360
 actgacgcca atcccatcca ggtgggtcgtg gacgccatta tcaacagtgg accacgtgag 420
 gatgccaccc gtattg 436

<210> 20927
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-B11

 <400> 20927

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 tctcagccgt ggcgggggtg gtgcagcccg aggacgcggt gaagctcttc aaccgctgga 120
 ccttcgacga tgtccagggtg aacgatattc cgctgaacga ctacctgcct gtgactgcgg 180
 cgaagcacgc gacattcctg ccgcactccg cggggcgcta ctccaagaag cggttccgca 240
 aggcgagtg cgccatcgtc gagcgctca ccaactcgtc catgatgcac gagcgcaaca 300
 accgcaagaa ggtcatggcc gtccgcatca tgaatcacac cctgaagatc atccacctgc 360
 tcaactgacgc caatcccatt cagatggtcg tggacgccat tatcaacagt ggaccacgtg 420
 aggatgctca cccgtattgg ttc 443

<210> 20928
 <211> 359

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-046-Q1-K1-B2

 <400> 20928

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 ggacacgtga cggcaccacc acctgtgcca ctcggccctt cattgatgat gcagcagcag 180
 cagcagcaac cttcacaagc tgatacagtg ataatggcac aaccgctct gccactcgac 240
 ccttcattga tgcagcagca gcagcagcct tcacaagctg atacagtgat aatggcacia 300
 ccgcctctgc ctcttggtgc tgcgatgctt cagcaacagc cttcacaggg gggcacgat 359

<210> 20929
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-046-Q1-K1-B4

 <400> 20929

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 atgactggcc atctgacggc acgaagtgat gtttatggct tcggagtggg gcttctagag 180
 atgattatcg gaagaagggc tgtggacaag agccggccaa gccgtgagca taacctagtt 240
 gactgggcac ggcccctcct cgtccataac aggaagctgt tccgaataat cgatccgaga 300
 atggaagggc aatactccac caaggctgcc actgangtgg caagccttgc ataccgctgc 360
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<210> 20930
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-B5

 <400> 20930

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 tcccgtctta cttgccttgg ctgctgctgc tgcgcggcag ggcagagtc atggggaagc 180
 ctccgcgcgc ttcacgatg cctcgctgca ccgctacctt cgggaccagc aagccgacca 240
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 ctatccatt gatagaccgc gtgctgggtt cctc 394

<210> 20931
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-046-Q1-K1-B6
 <400> 20931

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 tatttccatg tgaaaccaga gttttttag ctatggctca gtggctccat gaccatgtct 180
 tatgcacact tacgaatttg atatcatcca agtcacaggt tgtgctcatc aatacttgga 240
 taccatcact tattcgtatt gggttggctt ttggctctca catttcttcg tattgggttg 300
 gtctttggaa attgggcctg atagctgttt ggagtatagt gtatggatct gcgttcataa 360
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<210> 20932
 <211> 71
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-046-Q1-K1-C10
 <400> 20932

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 tgtttccttt t 71

<210> 20933
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-046-Q1-K1-C11

<400> 20933

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cggcggcggt cctggcagcg gcgctgctgc tgctggcggc gggggccggg acggcgctcg   180
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gcagcgcggc gtcgcctctc ggggcgtgct gcagcggggg gcgctcgctc aacagccgcg   300
cgctcgctggc ggcggaaccg caggccacct gcaactgcct caagagcatg acgggcccgc   360
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tcggcg                                           426
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<210> 20934
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-C2

<400> 20934

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tcatgtctga tctcgacatt cagatcccaa ctgccttcga tcccttcgct gaggccaatg   180
ctggggactc tgggtgcggca gcagggtcaa aggactacgt acacgtgcgc atccagcagc   240
gtaatggtcg caagagcctg accaccgtcc agggattgaa gaaggagttc agctacagca   300
agatcctcaa agatctcaag aaagagttct gctgcaatgg tacagtggtc caggaccag   360
aacttggaca ggatcattcag ctccagggtg atcagaggaa agacgtctc   409
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<210> 20935
 <211> 390
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-C3

<400> 20935

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accggcgata agagggacaa cccaagaggg ggacgccagc aacgaggagt gcaactggtc 240
caggggaaag tgggtctacg acaacgtgtc ccgcccattg tacagcgggc tcaagtgttc 300
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ctggagatgg cagcctcatg gtcattggatg 390

<210> 20936

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-C4

<400> 20936

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catagggcct tgcgagacaa agaaaaccaa aagaaatgga cagccattcg tgactacgct 180
gagggccttt gttgggagat gctgtcacia caagatgaga caattgtatg gaaaaagacg 240
aataaaaggg aatgttacia atcaagaaaa tttgggcctg agctatgtgg ccatgatcca 300
gaatcaccat actaccaacc actaaacccc tgcatatcgg gcacaagaag tcagcgggtg 360
atccccattg aacaccgt 378

<210> 20937

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-C5

<400> 20937

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tcaactcatca aagccagatt tccatacctt tttactgcta tcgaaacccc acaatacagc 180
acacacccaaa caagacattc cgcacaatgt atctaaactt atcaaaagat actagggata 240
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a 301

<210> 20938
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-C6
<400> 20938

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tacattatgt tcggtgaatc tacagagtcc caattcacac tgaacttacc cccaaatctt 180
gcggttcca agattgccgt ctggactacg gtgactaatc caataaccaa atatgcactg 240
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cccgaacata atgatactta gatcctctct ggtgctatct atccttatta ttactctgac 360
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<210> 20939
<211> 313
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-046-Q1-K1-B1
<400> 20939

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gaggcgctg gaggagcggg atgcggcggg cgaggctgcc gccggtcccg gtcccgcagg 120

cgccggggga cgcggggccg gaggtgaagt accgcggggg gaggcggcgg ccgtcggggc 180
 ggtacgcggc cgagatccgg gacccggcta ggaagacccc gatctggctg ggcaccttcg 240
 actcggccga ggccgcggcc cgcgcctact acgccgcagc caggaccatc cgcggcgccg 300
 ncgcgcggac caa 313

<210> 20940
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-H2
 <400> 20940

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 cgagggattt cctcgcaaca tcatggcagt ggtagcccat aacaggggtca atttgggtta 120
 gcttcttga aatgctctga agaatcattt gcacatcaag tgaagatcag agatcctctc 180
 aagattgggtt ttcctaattt atgggcgttg cgacttgac gccagctact tgtgtggcat 240
 cctgaggatc ggctaagtgt cgatgaagca ctaaatac cttacttcca ggagccaatg 300
 taatgtaagg agaggagatt agtgataact aaccgacgaa tcttcagctc agtcctttca 360
 agttcaagcc gcatgcattt ggtagagga attcatgaat cgtttgtaat taccatccta 420
 gctgtgtcat aagatgttgt gaatattaca tgaagt 456

<210> 20941
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-H3
 <400> 20941

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 gcgcaggctg gaaaatat tttgaatctt ccgatcaaag ttgatgaatc taagctagac 120
 aagaagttgt tgacaaaata ttttaaagag caccacatg acaatctacc agagttttca 180
 aacaagtata tcatctttcg tcggggcatt ggaattgatc gaacaactga ctactttttc 240
 attgagaaag tagatgtaat gatatcccg gcttggaggt cattgctcag gggtaccagg 300

attgaccggt tatttttctaa gaaacaacat ttgaagccaa agaatggtac gaagaagact 360
gatgaaatta atgaagatga agaagatcca gattgtttgt tgagagaatt cgattagaaa 420
aattgaacta agtttgaaaa atctcatgag t 451

<210> 20942

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-H4

<400> 20942

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ggggattctc cgacgtcctg gtcgcgagcg agcactacgt ggtccgcgtc cccgactggcc 120
tggcgctgga cgcaccgcg ccgctgctct gcgcggcggt caccgtgtac agcccatga 180
tgcgccacgg cctcaacgag cccggcaagc acctcgggcg cgtcggcctc ggcggcctcg 240
gccacgtcgc cgtcaagttc ggcaaggcct tcgggatgaa ggtcacgctc atcagcacgt 300
ccgccagcaa gcgccaggag gccatcgaga acctcgggcg ggacgagttc ctcatcagcc 360
gggacgagga ccagatgaag gcggcgacgg ggacatgga cggcatcctc gacacggtgt 420
cggcggtgga cccgatcacg ccgctgctgg cgctgctgaa gccgtggngc agatggtgat 480
cgtg 484

<210> 20943

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-H5

<400> 20943

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ggcaatcctc aacctagact tatgcatgct tactacttag actacaagga tgataggcta 120
acatatgtta caaactttat gggccatctc atctcttggc atactatcac tctacgcatg 180
atgctgagc agtcttttgt gaaccttggg gagcctaata ttccggtggc atgagctaca 240
gatacaccta agtatca 257

<210> 20944
 <211> 500
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-H8

<400> 20944

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 tcgacgatgg cggctgtgct gaacagcagg aagacgccgc atgcggtggt ggccgtgctg 120
 gtggcgggcg cgctgctggc ttcgctccgct tcggcgggcg tcacctgcgg gcagggtgggg 180
 tcgtcgctgg cgccgtgcat cccgtacgcg acggggaggg ccagcgcgct ccccgcgctcg 240
 tgctgcagcg gcgtcaagag cctcaacagc gggcgcgga ccagcgcgga ccgccaggcg 300
 gcgtgccgct gcctcaagag cctcgccaac agcgtcaaga gcgtcaacat gggcacccgtc 360
 gccaccatcc cgggcaagtg cggcgtctcc gtcggattcc ccatcagcat gtccaccgac 420
 tgcaacatga tcagctaagt tacgacgacc aagcttataa gcctaccgaa cgtacacgta 480
 cgcnccgngc gctgcacgag 500

<210> 20945
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-H9

<400> 20945

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 cctccgaacc agcagtacta tggtcagccg ccaatgggcc cgcagcaagg ctatcctcaa 180
 cagccagatc cctatgctag gcctccatac agtggacctg gtcaatggcc tcccaggggt 240
 gctccggctg cagatggctc ttaccaggcg ccagctgcat cttatggtgc cgcttctcag 300
 cacccttttg cttatgggca aacgtacagt gcagcaactg gatctgatgg atatgctcaa 360
 caaggttacc cacagcangg tgggcaggca ccagctccat atggtcagag tgcaccagca 420

<210> 20946
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-A10

<400> 20946

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 aggcaacaca agccggcgag gacggcggct gccagcgga cgagtgccgc gtctgcctgt 120
 ccaagattcg gtcggcgag gctaccgcc gactgccgtg tcgccatgtg ttccaccggg 180
 actgcgtcga ccggtggctc tcgtcctgca agcgaacctg tccgctctgc cgagtttatg 240
 tggccgatgg gaacaagcag ccggtggccg cgaagcacac cagccgtgaa gcacaggcac 300
 tcgccgacga cettgtttatc tggttctcca ccgtgcttgt tccccgttcc tgatgccaaa 360
 ttcttcgtc tggttcgttcg ttgaaaaag cttgattggg gtgtattttt ttattgcat 420
 gcatgataca t 431

<210> 20947
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-A11

<400> 20947

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 ccctagggtg gtcccgtccg gtcccctgcg gcgcaagtcc ggccggcggg cgggctgact 120
 gcctggcgtc ggtagggggc gacggcgatc tatatctgtc gatgggctac tggtagggacc 180
 gcgtcgtgct gccggtgcgg cgggcctggc tcggcgctgc gtcccgttc ggggttcgcc 240
 agaccgggct gtggaggctg cggcaggagg tgagcacgtg cgagtacgag gacgtgcacg 300
 tgatgtggga gatgctgagc cgcaccacgg cgccggcgcc taggcggccc agccggttcg 360
 ggccgcagcc gcggccgtgg ggcagcaggt tccgtctc 398

<210> 20948
 <211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-A12

 <400> 20948

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 agctgtgatt tgtacggaca gagcttgaaa cataatccta atggacgggtt cgttgttgta 120
 tgtgtagatg gtgagtacat aatttataact ggcctggcct ggaggaataa gtcattcgga 180
 tctgcactgg aatttggctg gtcatacataa ggagaatatg caattaggga aagtacatca 240
 tgaatcaaga ttttcagtat atcatttcag gagaagaaaa ctatccggac ttcattttca 300
 gcagagcgta tttttggtgg ggtattgtag acaatgtgtt ctagtgattt catctgcttt 360
 tatgactggg tagattgtag actgatacac ctaatcgatg tgaa 404

<210> 20949
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-046-Q1-K1-A2

 <400> 20949

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 ctggaggggtg cgcactaggt cgcaactggc aagctggagg tgctttcgga gcagcagttc 120
 gtcgactgtg accacgagtg tgattcatcg gagcctgatt catgtgattc gggttgcaat 180
 ggtgggctaa tgacgacggc attcagttat ctccagaagg ccggtggcct tgagagtgag 240
 aaggattacc cttacactgg gagtgatggc aaatgcaagt ttgacaagtc caagattggt 300
 gcttcagttc agaacttcag tgttgtgtct gtggacgagg ctcaaatttc 350

<210> 20950
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-046-Q1-K1-A4

 <400> 20950

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gcgcaagagg ccaccgcaca gcggccaggc ggcgagcgag acacctccac acgtctctcc 120
cccttccccct ccccttccgt tccctctgta gctgcgcccg accgaacccc cctaccccgt 180
ggaatcgtec tccgatgcgg cgccgatagg ggctggcgga ggagcggaat ggcgggggcac 240
ggcgagaagc ggcgccgtac gggagggggc cagagaagc cggaggagga ggaggaggac 300
cgcatctcgg atctcccga cgtcctgcgc ctgcacattc tgagcctgct gccgctcaaa 360
tcggccatcc gcaccggcgc gctctnctcg c 391

<210> 20951

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-A6

<400> 20951

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gccgcaggag ccgggttgta ctactaccac ccaggcgccg ggaaggtgag cctcgaggcg 120
gtcgccccgt cctctccgtc gctggccctg aggccatcgc agagcaaggt gctgtgcgtc 180
agcagcagcc ggtggtggat gaggcgaaga tgggagggga aggcgagcag cgtcagcagc 240
agggcaaggg caagcgcaag gcctgccttg ttctcccctg tggccatgga ctggcaggag 300
tgcaccaccg agcttgaagt tgatgttcca tgctcgggtg cctatcaggg gtactcagaa 360
ctgtagacta tttctc 376

<210> 20952

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-A7

<400> 20952

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gcatacatgc accagagggg ctactttcat cgtgacctca aacctgagaa tctgttggtt 120
agcaaaggtg tcataaagct agcagacttt ggtcttgcaa gggaagtctc atcattgcca 180

ccatatacag aatatgtctc aactcgtctg tatcgggcac cagaagtctt gctccagtca 240
tctgcttatg attctgcagt tgatatgtgg gcaatgggtg ccataatggc tgagctgttg 300
acaactccatc ctctctttcc tggaaccagt gaagcagatg agattcacaa gatatgcaat 360
gtcaatcgta gtccagatga gcaatctt 388

<210> 20953
<211> 396
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-A8
<400> 20953

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ttggatttga aaccacgatt cttgagattt cctggagggt gttttgtaga aggtgactgg 120
ctaagaaatg cattcagatg gagagagtca attggtcaat gggaagagag gcctggacac 180
ttcgggggatg tttggcatta ctggactgat gatgggcttg gatattatga gtcccttcag 240
cttgccggagg acctgggtgc tgccccaatc tgggtattca acaatggaat aagccacaat 300
gatgaagttg atactgtagc tattgcccct tttgtaaagg atgtattgga cagtctggaa 360
tttgcaaggg ggagtgcaga ttcaacatgg ggctct 396

<210> 20954
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-A9
<400> 20954

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cccctggcga tatcctggtg tttctcacag gtcaggagga aattgaaaca gttgatgaaa 120
tccttaaaca cagaacaagg ggcttaggca ccaaaatctc agaattaatt atatgtccta 180
tttatgcaaa tctgcctacc gagcttcaag ctaagatatt tgagccaacc cctgaggggtg 240
cccgtaaggt ggttctggcc actaatatag cagagacttc attaaccatt gatggtataa 300
aatatgttat tgatcctggc ttttgtaaga tcaaatacata caatccccgc acaggaatgg 360

aatctctact tattaatccc atctcaaaag cttcggcaaa ccagagggct ggaagatctg 420
gacgcac 427

<210> 20955
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-H12

<400> 20955

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gtctctctctg ctgggagaat cccagtgatg tgctcgacag cgccaagcta tgcgactgct 120
ccaacgccaa taactgcagg agcaccttca gccagagtct gttctgctat caacactctc 180
aactacaaca tgacacttat cactcacgcg acaagcattg ctcatgctat agatcttgct 240
ccaataatcg cgtccctaaa cttgacaaca attaattact atcgtctaga aataccctca 300
acattcctga gcacacttgt tcagtcaata acatagcatc agacagtcac atactctaaa 360
aatgattctc tctacgctga at 382

<210> 20956
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F5

<400> 20956

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gatgactaag cgcaccaaga aggctggaat tggtggcaaa tatggaacca ggtatggcgc 120
tagcttgctg aagcaaatca agaagatgga ggtatctcag cactccaagt acttctgcga 180
gttttgtggg aagtttgctg tgaagaggaa agcagttgga atttggggat gcaaggactg 240
tgggaaggtc aaggctggcg gtgcttacac catgaacact gctagtgcag tcaactgtcag 300
gagcacgatt cgtcgcttga gagagcagac tgaacatga tttta 344

<210> 20957
<211> 331
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F7

<400> 20957

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cgaggtgccc cgcaaggcc cgcgtcgccg cgcgggcttg ctccggcgag gtggtgaaga 180

gctccgccgt cggcgcgcgc cggttctgct tggagggcgg gacgtggtgg tggcgcccg 240

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actggagctg gcgctggagg tcgtcgagcg c 331

<210> 20958

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F8

<400> 20958

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gctcgccatg taacgtgct ggggcccctg atactgctgg cctcgccggc agtcactcgc 120

ctagcgtccg ccgctgcgc agacgagaag ttcccggcgg ctcgtcgta ctcgatcgc 180

gaggacctgc cgaagctgct cgcgtcgctg cactggacgt acgacgcgta caacagctgc 240

ctgtccatgg cgtgcgcggc ggcacccgat attacagctg atcactggcg tatggcctga 300

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<210> 20959

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F9

<400> 20959

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gctgaggcct tcacgatct cttagccgct gacaagcacc caagagatgc aggatagaat 120

gagacggcag ggccaatatg gtgaagcgga tattaactcc atggttgctg cccagttgca 180
 tcaactaccag gcacagcaaa gggtagagaa acaccctgag aatagctaca ctggaagaga 240
 tcttgcacaa gcttctgcgg agcatcagta cacttcccct aaggcaagac agagtcaatg 300
 ggatcgaggt ggaccaaagt 320

<210> 20960

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G1

<400> 20960

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 cggcgctggg cctgtaggac cactccgtcg ggcacgggca cccgtgcgcc cgcgtgcaca 180
 gtggcttcct gtccttgtag acggagccac ccaagcctgc caaagacacc aactccgaca 240
 tggcgttctt tgtcaacggc agcg 264

<210> 20961

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G10

<400> 20961

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 actctaataa ctcacacta 79

<210> 20962

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G11

<400> 20962

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agccagacat tcagatgatt tcaaactgtg atggttcatc tagaccactt gaccatcctg 120
 cggatttgta tgatttccat gtctatactg attctaagac tttgtttaac atgaggagca 180
 catttgacag aacatctcgt agtggaccta aggcttttgt gagcgagtac gctgtctgga 240
 gaagtgacgc gggtagaggc agtcttcttg cttcgttggc tgaagctgct ttcctcactg 300
 gtctggagaa gaacagtgat attgttcaga tggcaagtta cgcaccactc ttcgtgaacg 360
 acaatgacca aacgtggaac ccggacgcta tcgtcttcaa ctcttggcag cactatggaa 420
 ctcttagcta ctggatgc 438

<210> 20963
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-G12

<400> 20963

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 accagatcac ttgttaaacy tttgttgagg ggtgatggcg gtttctttcg caaacctcaa 120
 caccgaggca gggcttaaaa agcttgatga gtaccttctc actcgcagct acatcactgg 180
 ctaccaagct tccaaggatg acttggtgtg ctacacttcg ttttcgtctg ctccctcgtc 240
 caagtatatc aacgtagcaa ggtgggttaa tcacattgat gcgctcgtga ggctgagcgg 300
 aattactgca gagggccaag gtgtgaaggt tgaatcctca gcagttcctt cagccccaac 360
 ttcagatgtt gctgaagcac atgccccagc tgctgangag gaggacgatg atgatgttga 420
 cctttttggt gaggagaccg aagatgagaa gaag 454

<210> 20964
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-G2

<400> 20964

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ccgccaaatg ggccccaaaa ggaggcggtg ggcccccgtc ccccgccaag aaaaaggcgg 120
 tgggtganaaa cccgctcttc gagaagagggc cgaagcagtt tgggatcggc ggcgccccttc 180
 cgtccaagaa ggacctccac cgcttcgtca agtggcccaa ggtcgtgcgc atccagcgcc 240
 agcgccgcat cctcaagcag cgccttaagg tgcccccggc gctcaaccag ttcacacgta 300
 cctcgcacaa gaaccttgca acaaacttgt tcaagatgct tcttaagtac cgtcccggagg 360
 acaaagctgc caagaaggag aggctcttga agagggccca ggctgaaaac gaggggaaaa 420
 cttgtgagtc aaagaaacc 439

<210> 20965

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G3

<400> 20965

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 cagagaacat gggaaagagt tatgctagct tctttggtgg accatggttg tgtggcaacg 120
 ggtgatgaga aaattgcaga atgctgtcga agatttggag ctgatgttat aatgacatca 180
 gcatcttgca aaaatggatc tgaacgctgc tgtgaagcac taaagaagct tgataagcac 240
 tatgatattg gtgtcaatat tcaaggagat gagcctctca ttgaaccaga gattatagat 300
 ggtgtaagta tgtcactgca gcgagctcct gatgcagtct 340

<210> 20966

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G4

<400> 20966

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 tcaaagagac tgtacacgct atgctcctgg aattgaaatc atcagtgttc gtgttacaaa 180
 gccaaatata cctggtagta tcagaagaaa ctttgaactt atggaggagg agcgtacaaa 240

ggcactgata gccatcgaga agcaaaaggt agcagagaag gaggcagaaa cacagaagaa 300
gattgcgcta tctgaagcag agaagaacgc gcatgtgagc aagatcctga tggagcataa 360
gctgatggag aaggacagtt ccaagagaca ggagaagatt gataatgaaa tgtacctggc 420
acgagagaaa gcactagcag atgcaaacta ctacaggatt ttgaaggaag c 471

<210> 20967

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G5

<400> 20967

acaaaaacag aggagcccgt cggccgtcgc aaaaaaacia aacaagacca ccgcaccatg 60
ggatcgctga cgcttcgcgc ttcgacggcc gcctcgccgc tgcagcgacg ccggctgctc 120
cccggacggc agcgcgcgac gtacgtccgc gccacggcct ccgccggcga gccggacctc 180
tccgtgcgcg tgaacgggct gcagatgccc aaccggttcg tgatcggggtc gggggccaccg 240
ggcaccaact acaccgtcat gaagcgcgcc ttcgacgagg gctggggcgc cgtcatcgcc 300
caaaactgtg tcaatggatg cttgaaaagg tattccaccg tacttccctgg taatgcaaag 360
cttcgggcag aaccaattgg ggctgccatg g 391

<210> 20968

<211> 481

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-G6

<400> 20968

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tccgcttcgg cggcgatcac ctgcgggcag gtggggctgt cgctggcgcc gtgcatcccg 180
tacgcgacgg ggagggccag cgcgtcccc gcgtcgtgct gcagcggcgt caagagcctc 240
aacagcgcgg cgcggaccag cgcggaccgt caggcggcgt gccgctgcct caagagcctc 300
gccaacagcg tcaagagcgt caacatgggc accgtcgcca ccatccccgg caagtgcggc 360

gtctccgtcg gattccccat cagcatgtcc accgactgca acaagatcag ctaagttacg 420
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 g 481

<210> 20969
 <211> 252
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-G7

<400> 20969

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 gctgtgttgg ctgccatcac ctcagctcag cagagggtga agctctacaa caaagtgcct 120
 nctaacggat tggttctgta cactggaact attgttactg aagacggaaa ggataagaaa 180
 gttactatng attntgagcc attcaagcct atcaatgtat cactctacct ttgtgacaac 240
 atgtccacac tg 252

<210> 20970
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G8

<400> 20970

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 caaaccacac aaattactac gattttgacc attcaatcct atcaatgtat cactctacct 120
 taagacaaca agactccaca ctcagctcta aacacctctc aaatctatca catgtctaata 180
 acattgttat catcgttaata acctctcttt gcacactaaa tgacattacc cgtgaattcc 240
 tacacaaata cacttttgac ctccc 265

<210> 20971
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-G9

<400> 20971

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ggtgtcgcgc atcgactacg cgccgtgggg cgtgaaccgc ccgcacgtgc acccgcgcg 120
caccgaggtc atcttcgtcc tccagggctc gctcgacgtc ggcttcgtcg atgccaccgc 180
caccgccacc ggccggcagcc gcctgtacgc gcgcgccgtc ggccgccggc aggtcttcgt 240
cttcccccg tgcctcgtcc actaccagag gaacagcggg ggccagcccc ccgccgtcct 300
ctccgccttc gacagccagc tgcccggcac gcagcccgtc gccgaagccc tcttcggcg 360
ctcgccgacg gtgcccaccg acgtgctcgc caggagcttc caggtcgacg gaggactcgt 420
ggaggccatc aggtccaact 440

<210> 20972

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-H1

<400> 20972

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ttgtcagggg tgtgaacaat ccggagatca tcgatgaagc cgatgtacac gtgcatgggt 120
aagttcaaga ttgtcagcct gaaagtcata aggccggtgg agtacgtgcc tgaactgact 180
gatgagcaga aggaccaggt ctccgtcgag caaatatcgc aggtagtatt ctccgatgct 240
gatcgcccaa gccca 255

<210> 20973

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-H11

<400> 20973

aaacctggag tgcttggtt gattgaaaag gcaacaccat cactcgccgc agcatactcc 60
atctctcggg ctgttagtat tccagtgatg tgctcgtcag ggttaagctc ggtgactgca 120

ccaatggcag taactgcagg agctgctgga gttggagtcg gttctgctat taacaaactc 180
aacgacgttg tggcaatgat cgctgaggtg agaagcattg cgcaagcaat ggagcttgcg 240
ccaagaatcg tgtccgaaaa cttgagaaca attagttact agtggctagg aatacccttg 300
ccatttctga gcaaacttga gcagtcaata agaaagcata agagagtcac cgactctcaa 360
tttgattctc tctacgctgt cttttgcctg tggcaatgaa tagcgcatta gcatcataga 420
agtattag 428

<210> 20974
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-D7

<400> 20974

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ggccgccgctc gccgccatgg ggaggggaaa gttcaagggg aagcccacag gccgccgcaa 120
cttctccaca cccgaggaga tcgctgctgg tacttcaggt cggccacgca cctttaagaa 180
gaaggaggaa gaggaagatg aggaagaggt agaaagagaa gagtctgagg aagaatctga 240
agaggattct gatgaaaaga ctaaacataa aggcactgaa ggtattattc agattgaaaa 300
tccaaacttg gtgaaagcca agaataataa ggccaaggaa gttgattttg gcaagacaac 360
tgaactctca aagcgtgaaa gagaagagct tgagaaacaa aaagctcatg aa 412

<210> 20975
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-D8

<400> 20975

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ggcttccatt acattggatc gttcgcaggc tctaattgatt ccttttgcaa gctcgtgcag 120
tctgttgctg atgttctact tgttctcgtc tgtttcacat ctcgtgacag cttttactgc 180
tgtggcctca gcattggcac tgttcttttg cctgtctcca cacatcacct atctcaaggc 240

acgattcaat ctaatggacc cattcatgtc cagatgttgt tcgaagtcac ttacacggtt 300
gcaagggttg ctgatgctct tctgcatagc cacagtetta gcttggttgg tttcagggca 360
ttggatgcta aataacctac tggggatttc atatgtatag cgtttgtcag ccatgtgagg 420
ctttccaaca taaagatctg ggcaact 446

<210> 20976
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-D9

<400> 20976

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tatcccagct tctgtacagg aagtacagtg gaaacttctt tggttaacctt cttgggatgt 120
ggaaggagtc tgaatactct ggccattctg ttctgttgg tggctcttgc tactatgtaa 180
ctgccccatc aagtttggct gatgtccttg caaatccatt ccatgcactg ttttatgtgg 240
tcttcatgct gtcagcttgc gctctgttct caaaaacgtg gattgaagtt tctggttcat 300
cagcaaagga tggtgctaag cagctcaagg aacatcaaat ggtgatgcca ggacatcgtg 360
agtcaaactt gcagaaggaa ctgaaccgat acattcccac tgctgctgca tttgggtggag 420
tatgcatcgg cgcattgact gtcctggctg atttcatggg 460

<210> 20977
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E10

<400> 20977

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cgagcactac caaacgtttc ttgtaaccac catacccaac atcacacaac aacatcaacc 120
ctacacacac taacgcacac acacatacca tcatatacga gccaacatca caactgaagc 180
taccacaact gacaccaa 198

<210> 20978

<211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E12

<400> 20978

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 caaaaactaa gtgttgccat gaagttcaag ggtcaactgt tccaacttat gcaaagactg 120
 gaaagtacaa caccacactt tattcggttg attaaaccaa ataatttaca acttcctgca 180
 atttatgaac aaggacttgt gcttcaacaa cttaaagtct gtgggggttct cgagggttgct 240
 cggatttcaa gatctgggta tccaacaaga atgactcacc agaagtttgc tcggcggtat 300
 ggctttcttc ttcttgagga tggtgcatct caagatccac tcagtgtttc agttgcaatt 360
 cttcatcagt tcaacatttt acctgagatg tatcaagttg gctacacaaa gttgttcttc 420
 cgaactggac agattggcaa ac 442

<210> 20979
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-E2

<400> 20979

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 gaagagtggc atccgctccc gctctccacg gccgacctt cctccccgt caccctcccc 120
 accggccaga ccttcctttg gcgccgcacc tncctctccc cgctccgctt caccggtgcc 180
 gtgggggtccc acctcgtctc cctctccac ctgcccgaact ccgacgatgg ccgcctcgca 240
 ttctcctcc acaacgacgg cggttgcccc gccttctcgt tgcccgcgt ccgcgccgcg 300
 ctctcgact atctcaacgc ggccgtctcg ctcgctgacc tctggccgca gttcgccgcc 360
 gcagatgagc gcttcgctga tgctc 384

<210> 20980
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E3

<400> 20980

ctacaagaga aggtttttgt catcgttggt ttaggttata taccctacaa ttccgtcatt 60
ggtgcttatt cctactgggg cccaaaggca ggtcaagaga tctacaatat ggggagtgca 120
gatcttatgt ttggtggaat tactatagtg tgtggaatta ttggatcact agcaggaggt 180
ttcatccttg acaagatagg gtctactatt cctaatgcct tcaagcttct ttccgggtgcg 240
acatttgtag gggcaatatt ctgctttggg gctttttggt tcaagagcct ttatgggttc 300
ataccctcct ttgcagttgg ggagctttca gtgttcgcaa ctcaggcacc tgtaaatttt 360
gtatgccttc acgccgtgaa gccaca 386

<210> 20981

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E4

<400> 20981

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agccgtttcg agagacagct ttaggctgct ggtagctgct agcagtatgg cttccgctgc 120
gcgcttcctg gtggccgtgg tcgtagcgtg cgcactcctg gccagcaaca actgccacgc 180
ggcgcgccgc ttggccgaca cggccgcggc tcccgtgct gctgggtgccg tccctggcct 240
ccccgctgtg ccgacctgca caacgggtgca gccagtgcc aagggtggcg tgccacctat 300
gccggccgtg cccgcgggtca ccgtgccgca gatgactgct gccgccatgc cagcggctcc 360
caaggtggcc gtgccgttgc cgtcaatgcc cgtcgtccc tccgtgcttg ccaagctgac 420
cct 423

<210> 20982

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E5

<400> 20982

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gtcgtccgcc agcgcaagcc gtggctccgc aaggactgtg tctacatgta cttcgaagat 120
aatgctggag tgattgtgaa tcccaagggg gagatgaaag gttccgctat cactggacct 180
atcggaagg agtgtgctga tctttggcct aggattgcta gcgcagcaaa cgccatcggt 240
tgagagcttg ttggaatatg ttcagacttc tatatgatca tcttattatc agttgctaag 300
agtgtatttg ggcttaatgg gccctttatg tttgttcact caaatgtgta gtaaacagaa 360
tttgggtatac caaggtgatc tatatatcaa tgtatgccat aaattgtctg act 413

<210> 20983
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E7

<400> 20983

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cagcagtagc ggccgttatc ttgtcgctcc ggctccgttc gtgtacccaa gtcccagcct 120
agatgccgca gatggagggg tccactgacg agatcgccgc cggctgggtc gctaaggagc 180
cggctttcga gcggcccgtg ggcttgccga ggaccggctc ttacagtcgc cttaacgcgc 240
atgcgccgga gttcgtgccg cggggggc 267

<210> 20984
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-E8

<400> 20984

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ggggttcgcc gcggcgctgg cgctggccgg cgaccgctg tgggtcatga acatgggtccc 120
gaccgtggcg aacgcgacca ctctcggggc catctacgag cgcggcctca tcggaagcta 180
ccaggactgg tgcgagggca tgtctaccta cccgaggacc tacgacctca tccatgcgga 240
ttcgggtgttc accctgtaca aggacaggtg tgagatggac cgcctcctac tggagatgga 300

caggatcctg aggcccaggg gcacggtgat cgtcagggaa gacgtggaca tgctggtgaa 360
 ggtcaagagc ctggcggacg ggatgaggtg ggagagccag atcgtcgacc actaagactg 420
 tccgctcgtc agggagaaga tcctcctggt cgtcaagacg tactggac 468

<210> 20985
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-E9
 <400> 20985

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 cgggcagccg ccaccggagc tcagaaccac catcagcagc agcagcacac ccggtcaacc 120
 ttccacacac gcgcgcacac acacatggcg tcgcagcaga ggcaacagca ggccgggagcg 180
 gcggcgggcg cgtcctccgc cgtgggcttc gaggactacc tgccggtgat ggccgggagcg 240
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 gcgcgcgggc tcatcacctt cgacagcctc cgccgcaacg cgccgctgct gggcctgggc 360
 ggcatgtcgg acgccgacct ncgcgggatg ctcgccgagg gcgacttcga cggcgacggc 420
 gcgctcagcg aga 433

<210> 20986
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-F1
 <400> 20986

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 gtttagaagg ctctgattc tacatatgat atgattggag gccttgacca gcaaattaaa 180
 gagatcaaat aggtcattga gctttctatc aaacatgcgg aactatgtga gagcctctga 240
 attgtccacc ccaagggtgt gcttctttat ggacctacga cacatgatcg acattgatgg 300

cacgtctctg tgctcatcag acttactgca ctttca

336

<210> 20987

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F10

<400> 20987

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aagtcgcggt tcttcgtcct cggcgcggcg ctcttctcgg gcgtgtcctc agcgtgttac 180

ccggccgtgg tggatgaagac gcacctgcag gtggcgccgt cgccgcacgc tgccagagct 240

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tcgctgggcg gcacggtgcc cgcctgcgcg ctgtacatgg cggcgctcga ggccaccaag 360

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<210> 20988

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F11

<400> 20988

gaattcttcc tccctctctc tacgacacca ttatctttta ttctctatct acgtctcagt 60

cctac 65

<210> 20989

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F12

<400> 20989

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agttcgcact cgcattgtct tgcaccttc gcgttacccg ctgcgcgcc tcccgactcg 180
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ggcgctatct accagatcta ggtattcgtc agccagggtg tcgctcggct ccgaggttgc 360
agtgggcgcc gacgcgctct tgcgcgacta taagcccacc accgctttcc tcttccccgg 420
ccagtgtgcc caaacggtt g 441

<210> 20990
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-F2

<400> 20990

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cactctctgt cggggggggcg tcttcgccat ggtgtgggtg gccttcgact aggcctcgat 120
cgagatcgtt gcgatcaaat cggcgcgcg cgttcaatcc gtggcgcatc tgcagctcca 180
ggccccctgta ctccggtgcc tctc 204

<210> 20991
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-045-Q1-K1-D6

<400> 20991

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taaaagtga ttctttgcat aatcctctct gtgggtgcct acaaagttaa aatgtggaca 180
tggctgtcac tactcactag tctcattgaa gcatcatggt gcaaactctg cttcaaggtc 240
tgctattgat agcttagaga tggctgtgat gtcaacgcct cagcattaat ttggacttct 300
aggccttcct tgcgtattta tgctttatat aagcatatgg ggtatggctg atcttgtcta 360
tngcccttcg gagttccttt caacttcaact tgagcctttg atggcacatt tggagtcagt 420

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452

<210> 20992

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-C10

<400> 20992

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ccgtgctaaa gcctcaggta aatcagcgat actggcgaat ttggaatcac aggcattact 120

aacagaggac atggggcgcc aagttttggc atttggtgaa aggaaacctg ctgagcacct 180

tctcaaggct atagatgggt ttactatgaa agatataacg tctgttgctg aaaagatcat 240

ttcatcccca ttgacaatgg catctcatgg aaacgttctg aatatgccta cttatgagtc 300

ggtcagtggc aagttccgct caaaatgagg agtacatgac cttcccttc attntatcac 360

cttgtttgct ggacaagttt taccagtacc ttgtcattca cgtctaggcc atggttcttg 420

gtcagtttca gaa 433

<210> 20993

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-C11

<400> 20993

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ttgtttttac actttaggct ggcacgacac aacttaaatt tttttgagct ttcttgcccc 120

gaacacgaag cagcatgggc tttggccggg cctaatacag acagcgtctg atggctgcgt 180

cacggtcacc ctacaaact tggttaaact ttgtcagtgc gcacggctgc aaactgacca 240

gcgcggcct acgtactacg cacaagttac aagtaccatc atgatgcttg acttaaatca 300

tactgctaca tacagtgata tatacaggat tgacggactg gatggacgct gctggtgcag 360

gactgccacg tgcacgcgat cgcgcgggac tacggggcgc tgacggcgca taaccggcag 420

agcatgctgg aggaca

436

<210> 20994
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-C12

<400> 20994

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cgcttgaggc gctggagagc acggccaggc aggtcaagga caatgcgcac gcgctggcgc 120
agtcagcgtc catgacgagg agcggccgca gctggtcacc agacgccgtg acggttgagt 180
cacggtgagc gtgcgccgcc gctgcagctg tggcagtaaa gatgaaggcg ga 232

<210> 20995
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-C2

<400> 20995

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gcaggcaagt tccccactct ggtcactcac caggaatccc tggaatccaa ggtgaatgag 180
acgaaggcta cagtcaagtt tcaactgaag aaagtccttt gcatgggtgt cgcggtcggt 240
aacctgtcta tggaggagaa gcagatccaa cagaacatcc agatgagcat caacttcctc 300
gtgtctcttc tgaagaagaa ctggcagaat gtaagatgtc tctacatcaa gagcaccatg 360
gggaaaccat tcaggatttt ctaagtctgg ttttttgtga agtctgctct ttatgatatt 420
tggtttttga accgaggttg tcttgaact 449

<210> 20996
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-C3

<400> 20996

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cggtgctgat ggtaatcgcc gtcacaagcg ccgtcttcag cgacgcgtcc tcggtgggtcg 120

tcggcctcgc caaatgcgcc gactgcacca ggaagaactt gaaggccgag gcggcattca 180

agggctctga ggtggcgatc aagtgaaga acagcaaagg cgagtacgag agcaaggcca 240

tgggcaagct tgatggcttc ggcgccttca gcatcccact tagcacggac ctncacggcg 300

ctgactgcgt tgcacagctc cacagcgctg cggtgaaccc gtgccccggt caagaacctt 360

ccagaattgt gccacaatcg tcaaagggca acttcgtcgt ggtccctgga aagacagact 420

acccatcgaa ggaatgtgcg tncgcaaccc tgtgtgggtc gat 463

<210> 20997

<211> 475

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-C4

<400> 20997

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cggaagccct tccaagccgg gccggaatct ggccacccca acaaccgccc cgaccggtgc 120

tcctaccgnc atcccggcca ttcttgccat gccgaaaccg ncggtcgtgc ccaccgtgcc 180

cgcggccacc ctttcaccga taccgcccgt gccgacgtcg acggtgccctg cgtgggcggt 240

gccaccgatc cccgcgttac ccaagatccc cgcgatgccc cctatgccgg ctgtacccgc 300

attgccaaag gtgacggtga cgctgccgnc gtcgatgccc gtcgtcgtca tccctaaggt 360

tggcgccttg ccgccgatgc ccgccgtgcc taagctgaca ctgccgccga tgcctcgat 420

cccgggcgtg cccatgccgt ttgtggcgcc gnccttcttcg cataantcaa ttcac 475

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<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-C5

<400> 20998

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gggacatgtc ccgaatcgag acattgtatc atgctgacaa ggagaagact gaagcactta 120

tcctggagct ggctgtgtgg cttcatcatc ttatcagtaa atcaagacac gccagtggag 180

gtgtaaggtc tcccatcaaa tctccagtca gtcaccaac acaaaatggc gctgcaatca 240

cactgttgcc gggcaaaacg aaaatttcac caccgattct cacccaagag gatcaggata 300

tgctaattgga tgtcaagtac aggaaaattg tccccaggat aagcaaaagt caggagtttg 360

acacaaagtc aagtcacagc 380

<210> 20999

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-C7

<400> 20999

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gggcatcaga aggcagagca gtcagagatt gatgaattga agcaaagatt gtgtgagctt 120

actgaggcca aaactcaact agagaccac aatcagaagc tgcaagagga aagcatgtac 180

gcaaaaggcc tggcctcggc tgcaggtgtg gaactgaaag cactgtctgg ggaggtcacc 240

aaactcatga accacaacga gaggctcgcg aacgatttgg ctttggcaag aaattcaaca 300

cgagtgagaa gtggtcatag ggttgggagg agggatagct atactaaacg gcttgagcca 360

gcgagtagaa gagatgttca tgctagcagt gaaagggaat cagctctgga ggtcatgctt 420

atggg 425

<210> 21000

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-C8

<400> 21000

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 gggctctgcg tggccgccat gaccgtcatg ctccgtaacc agcagagcaa cgagtacggc 180
 gccgtcgcct actccgacct gggaggcttc aagtacctcg tctacgccaa cggcctctgc 240
 gctgcctact cgctggtatc cgcgttctac actgccgtgc cgaggcctgc caccgtgtcg 300
 cgctcctggc tcgtcttctt cctcgaccag gtgttcacgt acctgatact ggcggcgggc 360
 gcagcggcgg cggagctgct gtacctcgcc tacaacggtg acaaggaggt gacgtggagt 420
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 t 481

<210> 21001
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-C9
 <400> 21001

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 aaagaaagtt tagatgagat catcaaggaa gctgagagcg acttggagtc tgaggaagtc 180
 ctggatcaat cccttgccat tgttgccaag aatgaagggt tggacaagggt ctcaactaca 240
 aaactcaciaa tttaactgt aggtggtggt tcgaagaatc tgacagaggg ccccttgagt 300
 gttatggata agcacatata tgcattgacac actgtcaaac catataccag cctgattgaa 360
 gctggaaaga ctggttgtct catcatctca gatataattg cta 403

<210> 21002
 <211> 207
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-D1
 <400> 21002

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cctcgaactt atgaaaatca ataaccatt cattatcctc agctacagct acatactcct 180
gcacctctat accatcccta ctgacct 207

<210> 21003
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-D10

<400> 21003

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gggccaggct acagggagag acgcatagga gacagctgct gcctggctga gacgatggcc 120
ggaggcggcg accactccca gacgaacgga ggccacgtcg accagagggc cttggacgag 180
ggcaggaagg aggagtctgc tgaccagggc tgcgcccga tggctgctctc cgtcccattt 240
atccagaaga tcatcgcgga gatcttcggc acctacttcc tgatgtctgc ggggtgcggc 300
gcggtgacga tcaacgcgag caagaacggg cagatcacgt tcccgggcgt ggcgatcgtg 360
tgggggctag cggatgatgt gatggtgtac gccgtgggac acatcttcgg cgcgcacttt 420
aaccggcgcg tgacct 437

<210> 21004
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-045-Q1-K1-D11

<400> 21004

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atgatcaatc accagcgaca tcaattcctc gcccgctcgc gcgtcgagga accgtcgcac 120
agttccagtt ccatgggcaa ggtgcgtctc ttcttctgcc gcgcccgcag cggcaagcgc 180
ggcggctccc ggccaggctc gtcgtcctcg tctctctcgt cccagtgcc gtccgcgagg 240
atggcgctgc cgtcgcccg gacgagacgg agcgcgtctt ccgcaagttc gacgcgaacg 300
gcgacggcca gatctcgcg tccgagctgg cngcgctgtt cgagagcgtg ggccacgcgg 360
ccaccgac 368

<210> 21005
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-D12

 <400> 21005

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 ccgggggcac cggcgtgggc gtggggtcgc cggacgaggc ggaggcggca tcggtgtggt 180
 caccagacag atggaggcgc acgaggggga gaaatgaaac agaggtgggt agaaaggaaa 240
 gtcgagatat gggtaaagtc gtttttttgg acgtacgtgt tattttcgac gggctaaaaa 300
 tagctacggc cgacgaaaat gctattgttc tattgtgtag cgtaactgtc gcactgatgg 360
 agtcccatg caaccatgat cggtgcaagc gtacttgtga catgcacggt agtagtagca 420
 agcaccagct agaatgatga tga 443

<210> 21006
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-D3

 <400> 21006

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 caggggcagg tgggtggcg ggcggtcatg ggggagctca tcgctcggg ccccgatcatg 180
 gtgatcgccg ccacgttcgg caacgccacc tacgagaggc tgccgctgga ccaggcagac 240
 gccgaggagg gcgccgtgct gtccggctcg tccgagggcg ccaccgcgca gcagctggag 300
 cagcagcaga gcagcggggg tcccgctgtg ccgtcgtcca tgtacgccgt cccgcagacg 360
 ccgtcgtacc cgcacgacat ggtcgggcag tgggggcacg cggctgtgac gcgcccaccg 420
 tcgacgtccg tctagctagc gctagatgca catgcaccag c 461

<210> 21007
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-C1

 <400> 21007

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 catcatccat ctaatacaat atcaaacgtg cagtgcacta ttgaagctgt gttaataata 120
 cactcttctc acatcctaaa cctcaccct aaccatttct cattaccaat cactactaaa 180
 tatcactatc tgataaagac ttataatcac attattatac aaacatttca ttcttctctt 240
 cttaacatgc atgcatacat gccactactc tatactacca tttatat 287

<210> 21008
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-A10

 <400> 21008

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 ctagcaagga ggtcctaagg caaggcaatg acaggccatg gcgctat 167

<210> 21009
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-045-Q1-K1-A12

 <400> 21009

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 ggatggcagc acggcgccgt ccgggccagc cgcagcaagg tgcttaggac ggccgccggc 120
 gacgacaact ccgacgccga cgcggtcgtg gcggcggcgg cagcggcggc ggcgaggaag 180
 ccgacgaacg cgtcccggag cacgggcaag tgccggcggg cccggtgcgc gggctgccac 240

gcgcacccgg tctccaagge gcgcgacaag gccaaagggcg cgcgcaagct gcgcgcctgc 300
 gatgtcgcgc tcaaccaaccg actcgtgtcc tggcgcgtcg tcgaccaggg ccccggttac 360
 agcggcgcggt ncgcctectc cctgctggcg tacctggccg gtggcagcag ctggcacgag 420
 gaggatgagg acgacgacga ggg 443

<210> 21010
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-A2

<400> 21010

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 aggagccact cagggcagat cacaggatag cattgaccac aagttcgacc tcatgtactc 180
 caagagcgcc ttcatgcact ggtacgtcgg tcaaggtatg gacgaaggca acttc 235

<210> 21011
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 21011

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 tgccatggtt atggagacac atgtaccttt tttcttgatg gagttgcgag gaagattgct 180
 tcagctggat atggagtatt tgcactggac taccctggct ttggtctttc agaaggactt 240
 catggatata ttccaagttt tgatacactt gttgatgatg tagctgaaca cttctctaan 300
 gtcaaaggaa atcctgaata tagaggccta ccgagctttc ttggtggcaa tctatggtgg 360
 agcagttgca tgaaggtca 379

<210> 21012

<211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-A6

 <400> 21012

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 ccaactgccga ggtccagacc ccgaccgtcg tggcggccga ggaagcgccc gtggtggaga 180
 ccccgccgcc gcccgtcgtg cccgaggagt ctgccccgcg cgaggccgag gccgaggccg 240
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 aggcggaggc cgcggctcct gctggtgccg aggagcccgt cgcggtcgaa ccggccgccg 360
 aggcggaggc tgctgctcct gctggtcccg aggagactcc tgcggtcgag caggaggcag 420
 ccgccgagga ggaggct 437

<210> 21013
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-A7

 <400> 21013

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 gcggagtgct ccgtcgacct caagctcagc gggctaggcg agttcggggc ggcagacgac 180
 acgcctcgac agccgcgcgg tcgctgcgcc tgatgccac cccttccgag atcggcaccg 240
 tcacccggcc cccatcctcc gactcactca gttgtcgcgc attctgccgc aacatgatcc 300
 ctctgcgcgc caccgaatgc cggccggcca gccgcacgcg cagcaggttg tcgacgacgg 360
 cgccgcgaac ctctcgtcct ctccaactgt cgacaaccgg tccacttgcc atagccgctc 420
 cccgc 425

<210> 21014
 <211> 411
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-A8

<400> 21014

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gcagagtgct ccgtcgacct caagctcagc gggctaggcg agttcggggc ggcagacgac 180

acgcctcgac agccgctcgt tctctgcgcc tgatgccac cccttccgag atcggcaccg 240

tcacctggtc ctcactctgc gactcactca gttgtcgcgc attctgcctc aacatgatcc 300

ctctgcgcgc cacgcaatgc cggtcggcca gccgcaactg cagcaggctg tctactacgg 360

caccgcgaac ctatcgttct ctccaactgt ccacacactt ccactttcca t 411

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<223> Clone ID: LIB3062-045-Q1-K1-B1

<400> 21015

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aaaagcgctt tctatgatga tgtgaaagca gccatcaaga cggcatcaga ggggtgcactc 180

aaagggtattc ttggctacac agacgaggat gttgtttcca atgattttgt tgggtattca 240

agggtcaagca tctttgatgc caatgctggt attggactga gctcttactt catgaagctc 300

gtgtcttggg atgacaacga gtggggctac agtaaccggg ttctggatct gatcgctcac 360

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<210> 21016

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-B10

<400> 21016

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 attctattcc taactactta tatctctaca taatcaacta caacatactc attctttaaa 180
 cactttcaca aattatactc aataatatta actacatata cta 223

<210> 21017
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-B12

<400> 21017

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 tgccatgtat gtgccatcc aggctgtgct ttccctgtac gccagtggac gtacaactgg 180
 tattgtattg gactctggtg atggtgtcag ccacacagtg cccaatctat gaaggttatg 240
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 tgaagatcct cactgagaga gggtactcct tcaccacctc tgctgaacgc gaaattgtaa 360
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<210> 21018
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-B2

<400> 21018

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 ggctgggtttt gctggtgacg atgcgccaag ggctgttttc ccaagcattg ttggacgccc 180
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ctgggatgat atggagaaga tctggcacca caccttctat aacgaactcc gtgttgcgcc 360
tgaagagcac cctgtgctgc tgaccgaagc cccactcaac ccaaaggcta acagggagaa 420
gatgacccaa atcatgtttg a 441

<210> 21019
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 21019

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tcaagtccct cgaggetcac ctgccgggca aaacctatgt gtctggtgac tccattacta 180
aggatgacat taagggtcttc gccgccggtgc cgtcgaagcc tggcgctgag tttcctaata 240
ccgcccgtg gtaacgagacc gtctctgccc ctgtagcctc aagattccct ggtaaggctt 300
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atgagcg 427

<210> 21020
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-045-Q1-K1-B4

<400> 21020

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tcctccctc ggccagccat ggtgccccct gctccttctt cctccagcaa caagaagcca 180
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tgtgcgagc agccccctcc cttccagacg ccctgtctct tcttccttgg cgcccagaaa 360
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 gcacccttc coatg 435

<210> 21021
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-B6

<400> 21021

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 agtgttccat tatccagacc agcctcattc aacagggaga agcaagaagg gaaaaggcct 180
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 gaccacctat ttgccgaatg caggaaccag ggggaggatt tgggtaacag aggagtata 300
 acaatgaagg acattgaaga aacgaagtct ggcaaagtgt gcagcgggtgt tcttaatggt 360
 ggtctaccag cgtatgttat tcttaatgca ctccttcggt ctgcgaaagc tgattctgtc 420
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<210> 21022
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-B9

<400> 21022

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<210> 21023
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-045-Q1-K1-A1

<400> 21023

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tgctgctgct ggcgggcggtg gcctggacgg cgtcggcggt cgtgagctgc ggcgaggtga 180
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tgatctgcag cgggtgtgcgc tagatcaaca gcctcgcgtc gttcgcgacc taccggcagg 300
tcacctgcaa ctgccttacg agcatgacgg ggcgcttcgg gggccgc 347

<210> 21024

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G3

<400> 21024

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tgagcaatat tgcaattatc ttaaaaagga tcaactgtag tattctacca gtgtacttga 180
attgcttcat gcatgtacgg tggcagattt tagttggatt tttcaattct tatggccttg 240
catggtgctg acagcaagca aatattgaca ggaacacctt tttattgtca ctgaactact 300
gcgagcaa atctatcagagt ttcagaaata taatcaagaa tctggtggtg aggtgtattt 360
tactttgcct aagatacaag tatgttctgt gtccttcact gagatgttct ccccgggacc 420
atgactgcta cttataatga tatca 445

<210> 21025

<211> 356

<212> DNA

<213> Zea mays

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<400> 21025

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gttggccgaa gaagaatgat acagatactt gcaaagatgc aaatgagggtt ctaatgtttt 120
taggtccaca agcattgaga aagggttatag aagatgcaga actgtatcct ataagaggcc 180
ttttttcatt caaacagttc ttcccagaga ttgacaatta ctttcttgga atacatggtg 240
atgagcttgg tattcatact ggatggaaat ctatggatga tctttacaag gttgttcttg 300
gggaattgac tgtcgttact ggagtaccaa attctggtaa aagcgagtgg atagat 356

<210> 21026
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G5

<400> 21026

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ggttcaattg cattcaactc tgtggtgaat acacagaatg gtaatacaag aacatatcca 120
ctcgtctctc taaaagact tcgtctagaa gcacaaaggg atctgtaaga tcgtgctcag 180
gtcatttcac attggacagg catcatgctg agatctcgtc atgttagaga atgtgaaagt 240
cacatc 246

<210> 21027
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G6

<400> 21027

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ttgccaccct tgatcaggag agagctgctg ctccaccaag aatcagataa ctctgcgcag 120
ttgtcccaaa ttgacacgga gcaactgctg gccatctag tagaaacaga aatgataaag 180
agaacgaaag aaggaaggta caagggaagg aagttcagtt cagtatgtca tttctttgga 240
tatcaggctc gaggatctac accatcaaatt tcgactgtg actatgctta tgctcttgga 300
cgtatctccc tgcataatgat tgcagttgga ttgactggct acatggcaac tgtggctaata 360
ctgaaagacc ctgttgacaa at 382

<210> 21028
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G7

<400> 21028

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gtcgctcgc gccctcgact ccggactccg gtcctccgca caccggccgg tgaccctgcg 180
tttgaacctg ctatagaaat ttataaaatg gccgcggttg atgcgacaac caaggagatg 240
gatgcactgc atgttggaca aaatgatgaa aaaaagaga ctctgattaa agaagacaaa 300
gctgcaaaca gcaatcattc tgttgttgca gtcagtcct tgccaccaga ggacgacgat 360
gatgatg                                     367
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<210> 21029
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G9

<400> 21029

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agattgaccg gccagttttt tgctctgaag gttattcaac taaatattga tgagagtata 120
cgcaaacaga ttgcaaagga gttgaagata aacttatcaa cacagtgccca atatgttggt 180
gtgttctatc agtgttttcta tttcaatggc gccatttcta ttgttttgga atacatggat 240
ggtggctccc ttgcagatgt cctgaagact gttaaaacca ttccagaggc ctacctcgct 300
gctatctgta cgcagatgct aaaaggactg atctacttgc ataacgagaa gcgcgttata 360
caccgagatc ttgaaccctc aaatatatt                                     389
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<210> 21030
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-H1

<400> 21030

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gtaactggca ggagcagcag gaatggcggc gacgcgtcgc ctctcttgct ttctcctcgc 120
cgtgcttctg gcaggagtgg ccgctgccac cgccttcgac gaagcggctg ctgccggctt 180
cgggcttggc cacggcgcg cgttccgcgc caagcatgga cgtgctgccg ctgagatgcc 240
ccagccggag ccacaacctt aaactaagcc ggagccccat atgcagtcac tgtcccagcc 300
agaacctaaa ccgaaacctt tgccaca 327

<210> 21031

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-H10

<400> 21031

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cgctccgcct cctcccagcc gcagctggc gcggcgggcg cggtcctggc agcggcgctg 120
ctgctgctgg cggggcgggc cgggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180
tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgctgcc ctccgcggcg 240
tgctgcagcg gggtgcgctc gctcaacagc cgcgcgtcgt cggcgggcga ccggcaggcc 300
acctgcaact gcctcaagag catgacgggc cggtcggcg gcggcgctcag catggccaac 360
gccgncaaca tccccgcaa gtgcgggcgtc tccgtccgcg tgcccatcag cccaccgtc 420
gactgcacca agatcaactg atcgat 446

<210> 21032

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-H11

<400> 21032

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cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccacttct tcaaccacca 120
 caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg aggtggtcac 180
 cgccaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc acaagcacia 240
 gcagcacctc ggcgaggccg gcgccatcgc cgccggcgcc ttgcactct acgagaagca 300
 cgaggcgaag aaggaccccg agcacgcgca caagcacaag atcacggaag 350

<210> 21033
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-H2

<400> 21033
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 ggcaggtacc cagaagaccg tcgatggtcc ttgatgaag gattggagag gaggacgtgg 120
 tgctgccccaa aacataattc ccagctccac tgggtgcagca aaggctgttg gaaaagtcct 180
 gcctgagctg aatggaaaac tcaactggtat ggccttcoga gttccaacac caaatgtctc 240
 tgggtgtggat ttgacatgcc ggattgagaa aagcgccctnc tatgatgatg tgaaagcagc 300
 catcaagacg gcatcagagg gtgcactcaa gggatttctt ggctacacag acgaggattg 360
 tgtttccaat gatttgtggt gattcaa 387

<210> 21034
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-H3

<400> 21034
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 aggaggacga gggctcctct tgccggcggc ggttgtggtg ctactgttgg gtgcagtggc 120
 gccagcggcg ggttgctatc cgcgcgtgtt caacttcggg gactctctgg cggacacggg 180
 caactacccg ttctgtctatg gcaacggctc agccaagctc cgtccaccat acggcgagac 240

cttcttccac cgcgccaccg ggcgcgcctn caacggggcg ctagtggtgg acttcacgc 300
ggacacactc ggctnccgt tcgtgcgacc gtatctgagc ggacggagcg cggaggactt 360
cgcgggcggg gccaaacttcg ccgtgggcgg cgccacggcg ctcagcccgg acttcttccc 420
ggcagggggg tccacaacat gggaaac 447

<210> 21035
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-044-Q1-K1-H5

<400> 21035

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atacagtatg acatcaggca cagaaggcat tgacgcgacg gcggcaactc gggttgttgt 120
cactagagat gtgagcaaca acgccaacaa tgccctgact ggccagtctt tctatcgctc 180
cttcagcggg agcgggggcat ccatggacat tgtggtgtcc agtgtcagag cttacctgag 240
cgccctgaac aagatctgca gtttcgctgg cgccgtgaaa gccaacagcg atgtagctga 300
gaccgcaagc gtcccagca cagaatgagc tcccgtttgg ttcagagtga catgttcaaa 360
aatttctgga aggatcgctc attgagctta ngacaggcag gaagtcttgg ggcttatgta 420
gtgtacaatt tctgtatctc atataccgtg ctc 453

<210> 21036
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-H7

<400> 21036

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gggcaacttg ctgggtccca gaggaatct ttgactgtaa aggatccgga gaagtacgag 120
ttcaagccga agcagctttt gaaacagatt gccaccatct atgtccatat ctcaaggggc 180
gacaaggaat ctgtcttctc agctgcaatc tcgaaagatg gcagagcata caatgatcag 240

ttgttttcta gtgcagctaa tattctgtgg aagattgggg gtgatcccaa aatcatacag 300
gagtctgtgc aacttgctgg tagggcaaaa gctgctgctt ctgaagctat ggatgctgac 360
gcaatccttg cggacatacc agatgaattc ctgatcccaa ttcagtatac tctaataaaa 420
gatcctgtga cact 434

<210> 21037
<211> 361
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-044-Q1-K1-H8
<400> 21037

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ggcctctcag agagtcacaa gtctctggac ttttgtttct aaacgccgct gtctctgtgt 120
atctcgttcc ttttcgaaaa ttttgaatcc gatcgatccg cgtgttttca cacactaagc 180
tagcaagatc gacgctatca cgctactgcg tgccctgtat ctgttgaagt tgtgcctgta 240
ggctgcaggc tggctgggtg tgtgtggctt caaaattcgg cggcgacagg cggcatcctg 300
gacgagcaaa acgcgcattc gatctggctg attttttcgg ttggctcgtc ttggccaatg 360
c 361

<210> 21038
<211> 306
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-044-Q1-K1-H9
<400> 21038

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ggacatgccg ggcgccgact accagctgac caaggcgctg ggcttgcgcc ccttcgtgaa 120
ccgcctcatg atgtaccagc aggggtgctt cgcgggcggc acggtgctgc gcgtggccaa 180
ggaccttgcg gagaacaacc gcggcgcgcg ggtgctggtg gtgtgctccg agatcacggc 240
cgtcacgttc cgcggccctt ccgagtcgca cctcgactcg ctgctgtcc atgcgctgtt 300
cggcga 306

<210> 21039
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G2

<400> 21039

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 atcttttagga cacaatgtaa atttctgaaa tcactaggag ttcaatgctt atggatagac 180
 acccagacac catgtctaag caagataaag agatatgttc tgcaatagaa aaactttcag 240
 actgtcagga aaccatattg attcttatcc gtcagatgac ttctatacct gctccaattc 300
 aattactcgg c 311

<210> 21040
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-E7

<400> 21040

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 ggttcaaaga aggttgcaca acagtctcca agggcccagg ttgcaatctt tgttgatctt 180
 gccatgactt taagaagaaa gcctgatgta ctggtaaatg ttatgccaaa gataatggga 240
 aacaattaat atctgggaca ggaaaagctt cccatcattg tctgggttat tgctcaggcc 300
 tctcaagggtg acctagtgtc tggcatgttt tgctgggctc attctctatt tcccacatta 360
 tgtgcgaagt caagtgggaa tccacttgca agagatttgg ttttgcagct gcttgaaaga 420
 attttgtctg tcacca 436

<210> 21041
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-E8

<400> 21041

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aaggaccttg atggcttgct atctacatgg aaaggaataa ctgagcatgc tcaatctgct 120
gccttggttg ctgatgaggg tgtggaaggt gctgttcctg taatgttgca cagagcgaag 180
ggtcatactt tatctgttgt tcaagacgat tttaatgaat aggtcaagag gctgggtgtg 240
gattctactg gaacatatca tgaggttaca agctatcttg aagaagtcgc acctg 295

<210> 21042

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-E9

<400> 21042

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ggaatggagg gaaattatgt tcatttacia aattcataat tccagtttcc taaccgcttg 120
ctactgaagg ttaaaatttt aagctactat cttataccat attgtagatc gttgatacat 180
ttatgcggag cattgcagta gcttcaacat cagaatgttg caaaaaaaca atcccatttt 240
cttttatctt gagatgttct gtaactgagc tgattgttca tgcagatga ttgctccacc 300
tctgtcaaac cttgaagggt taatgtcatt agacgacttt gacgatgctg aaggcggctc 360
caagctggaa cgattctcac gggagacgnc tgatccatca ttgtcatgga aagacgtgga 420
gtggctc 427

<210> 21043

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-F1

<400> 21043

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cgaccgacgt cgtcatcgtg ggcgccggct ccgcggggct gtccctgcgcg tacgagctct 120
ccaaggaccc cgccgtgagc atcgccatcg tggagcagtc ggtgtgcgcg ggcggcggcg 180
cgtggctggg cgggcagctg ttctcggcca tgggtggtgcg caagccggcg cacctgttcc 240
tggacgagct gggcgtggcg tacgacgagg ccgaggacta cgtggtcata aagcacgccg 300
cgctcttcac gtncaaggte atgagccgnc tnetggcgcg ccccaacgtg aagctgttca 360
acgccgtggc cgtggaggac ctcatcgtca ggggagggcg ccgtcgcggc gtcgtcacca 420
actgggc 427

<210> 21044
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F10

<400> 21044

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agagcctgac atgaagtga tgaatgtggc tagccttgat gagatcagtg atgcatattc 120
acttgaccgt gctatagcta caccagagag agcattgcat actgcaaacc tgtgtgtgag 180
gcttttatta tctaaggaga gcattgtgat taggagactt attatgacag cgaatgcaaa 240
atctcttgcc cgtgatctga tctccagaga tgctttgatg ttccgggtgc tccttagtaa 300
ggttattgcg gatgttgtct accaatggat gttgagtgcc acaggcttga aacgagttat 360
ggagaccaag atccagacgc ccatgaccac aggaaagaac gagggacatc tgggtgctggc 420
tgaagaacca tcgaccctga tgggtactcca agcg 454

<210> 21045
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F11

<400> 21045

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gggtgagctg atcgagatgg cgtgcctctg atgttgagta ccgctgcttc gtcggctgcc 120

tcaactggac cacggacgac cactccttgc acaactcctt catcacctac tgctaggtaa 180
 cttagtccaa gatcatccta tatcgagtga cacagatgtc cctcatcttc tgcttcgtca 240
 ccttatccac agatgatgag ttgcggtacg ccttctacgt catgaa 286

<210> 21046
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F12

<400> 21046

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 cgtccatgag cctaagaatc atgggcaa atccatcttcc ttccgggaaat cgggtcacaa 120
 ctcttgccgc ctaagcacia cgactccgtc gacgtcgcgg tcagcctggg gccgcacatc 180
 atcgacacca tccgttcggc cctgaccgtc atgatcgatg ccggtgagag gacagtgggtg 240
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 ccggccggcg actacgaccc taccaccggc tgcattcacgc ggttcaacca gctcgcggag 360
 caccacaacc acatgctgag gatgatgc 388

<210> 21047
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F3

<400> 21047

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 ccaccttccc ggacccgcag ctgctgcgg acagcaccgc tgaagcccca ctgctccacg 180
 tcgcggccga ggttctgccg tcattagctt ctgcgggcgg cctcttcttc gccgccgtcc 240
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cggccacggt ctttttcggg atg

443

<210> 21048
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F5

<400> 21048

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gatggctctg gacaggcctt caacgcctcg catcgatcgt gggatagcat tacataaaat 120
gattaggctt gtcacaatgg gtttaggagg tgaaggctat ctaaatttca tgggaaatga 180
gtttgggcat cctgaatgga tagattttcc aagaggctct caaagtcttc caaatggctc 240
cgtcattcct gggaataaca atagctttga taaatgccgc cgtagatttg accttgaga 300
tgcagattat cttagatatc gcggtatgca agagtttgac caggcaatgc agcaccttga 360
gggaaaatat gaattcatga catctgatca ctcatatgta tcacggaagc atgaggagga 420
taaggtgatc atctttgaga g 441

<210> 21049
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F6

<400> 21049

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gtttgggtca tctaaagcgg tatgctttca aggagcttcg tgcagctact aataatttta 120
actcaaataa catcttatgt gaaggtggat atggcatagt atacaagggt tatttgctgt 180
atggctctat tgttgctggt aaaaggctta aggattataa tgccgtctgt ggggaagtcc 240
aattccaaac tgaagtttta gtcataagct tggctgtgca tcggaatctt ctccgtctta 300
ttgtgttctg cactactgat agcgag 326

<210> 21050
<211> 399
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F7

<400> 21050

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atctgttgct aaatacacga cactttcatt atgcttacta gatatagata tcactgggtt 60
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gctcaagctt cacacaatgg gtttaagaga ctaccgctat ctaaatttca tactaaatca 180
gtatatccat actgaatgga tagattctcc aagaagtcct cacaatcttc caaatagctc 240
cgtcattact gggaataaca ttccctttga taaataccct cataaatttg accttgtaga 300
tgcagattat attagatatt acggtatgca caacttttac cacacaatgc aaaaccttga 360
gggagaatac taattcatga catctgatca ctcatatgt 399

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<210> 21051

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-F9

<400> 21051

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cagaaggctg aggagttgcc agagcatgtc ctgtgctgca tgaggctgaa caagatcgac 180
ttcgccaaca acgggcagat accgacgctg ataactgcag ctgatgagta aatctgtcct 240
gttactgtaa ggcactaact ttctggaaaa agcaaaagag actggttgctt ttcgagatgc 300
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gatgcatata catgtct 437

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<210> 21052

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G1

<400> 21052

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agctgaactc tctgatgaaa ggcaaagtca tcaggacgac ttagttaaat acagagatct 120

cgaggagaag atggaaaggt atgagatgga gaggagttca atgcttgtgg atggggaccc 180

agacaccaag tcaaagcagg ataaagagat aggggctgca gcagagaaac tggcagagtg 240

ccaggagacc atattgattc ttggccgtca gctgcaagct atgcgtcctc cagccgagtc 300

actcggctct tcacctaatc ggcaaggcac ggagaacttt ctacaggacg tggtaggaac 360

aaccgcagga gaattattccc agaagccttc aggccaacct gatacagacc aggatatgct 420

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<210> 21053

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-G10

<400> 21053

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tctgactgac tgcctaata gaatcctcac ggaaaggggt tattccttca ccacgacggc 180

agaacgggaa atcgtgagag acataaagga gaagctggcc tttgtggccc tagactacga 240

gcaggagctg gagaccgcta agagcagctc ctccgtcgag aagagctacg agctgcccga 300

tgggcaggtc atcacgatcg gcgcggagag gttcagatgc ccagaggtgc ttttgcagcc 360

gtcgtgatc gggatggaag ctcccgcat ccacgagacc acctacaact cgatcatgaa 420

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<210> 21054

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-G11

<400> 21054

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 cgagcacact gatgttgctg tcctgctega caatgaggcc atctatgaca tctgccgcgc 180
 ctcccttgac attgagcgcc caacctacac caacctcaac aggcttgtgt cccaggtcat 240
 ctcateccctg actgcttccc tgaggttcga tgggtgctctg aacgttgatg tgaaacgagt 300
 tccagaccaa cctgggtgcc taccctagga tccacttcat gctntcgtcc tacgctncag 360
 tcattttctgc tgagaatgcc taccacgagc 390

<210> 21055
 <211> 182
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-044-Q1-K1-G12

<400> 21055
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 ttacagatct gttcacatcc ctgctgagc cattccacaa tgaccattc tctcactctc 120
 ttctatatca cacttattct aatgaacttc ccgacacata agtcatctat cacatctacc 180
 ac 182

<210> 21056
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-044-Q1-K1-E6

<400> 21056
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 cgtccaccgg cgcaggaggc cagccgcggc cgcctgcggc agcccgggag tacgtgcact 180
 acccgaggct ctgccagag gaggtggccc cgccccgcc cccgccttat cagccgcgca 240
 ccgccgcgcc gtccgcctac ggaggcaacc cctacatcta ctccccgcc ggccggcgccg 300
 ccaccttccc gaagaatacg atggactccg tgaaggacgt gctcggcaag atgggggaga 360

ggtttggcga ggcggccgc aggaccgaga ccatcaccgg caatttctgg cagcacttga 420
aaactggacc aagcattact gatg 444

<210> 21057
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D12

<400> 21057

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cagagagggt aacatcgagc gtgtcatgag acagatcgag cttgagtcct tcaacaaggc 180
tgtagccgcg cttaggggtt cagcggacgt ggatagactg agactgatgg atacctacag 240
cctctcgtcc ttgagaccgg acggccacgt tgggccttac agaacaccct atccctttgc 300
aaggggcagc agtaaatcca cgcccgcca aaatgattgc ttgactgggt gtgtaccatg 360
ccccattgat gcatggaatg atcttggtat gaagatggcc ctggatccat gaaaacctta 420
tggatttgta tgggtgtgctc ttatgg 446

<210> 21058
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D2

<400> 21058

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gcctagcgct ccttgccgcg gcgctgctcc aggccctcgc ccccgcgctc gcggcgggcg 120
cggcgggggg cctggtgcgg gtcgcgctga agaagcagcc cgtcgaccag aacgcccgcg 180
tcgccgcgcg cctctccgcc gaggagaggc agcgctcct cctccgcggc gccaacgccc 240
tgggctcggc cggcgggcgc gacgactccg acgtcatcgc gctcaagaac tacatgaacg 300
cgcagtactt tggggagatc ggcgtcggga ccgccgcaca gaagttcacc gtcactctcg 360
acaccggcag ctgcaacctc tgggtgccgg ccatccagtg ctatttctcg atcgcttgct 420

acttcactc gcgctacaag tc

442

<210> 21059

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D3

<400> 21059

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gggtggagag agacctcgac ggcaaggtgg cggacgcgct ccgggagcgg acgaggtccc 120
ggcagaggac cttcaggtcg gtgaacagca tcaccatgcg cctgcccagg ttcaaggaag 180
ggctcagga cgtcaagaac atcttcgacc agtacgacga ggattcagat ggcacgatcg 240
acagcgaaga gctgcagagc ttcggaagca gagtccgggt gcacatgtcc gaggaggaga 300
tgagcaacct gcaccggtac tgcgacatcg acagcaggaa agggcgtcca gttccaggag 360
ttcgtcgtgc tcctctgcct cgcgtacctg ctcttcgggc cagacgtcac acgacgcg 418

<210> 21060

<211> 445

<212> DNA

<213> Zea mays

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<400> 21060

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cgagccttgg ccatgtcgat cttcgagtat aatgggtccg ccgtggtggc gatgggtggg 120
aagaactgtt tcgcgatcgc cagcgaccgg cggctggggc tgcagcttca gaccatcgcg 180
acggacttcc agcgggtgtt caaggteccac gacaagcttt acatcggcct ctctgggctc 240
gccactgacg cccagacgct gtaccagcgg ttggtgttca ggcacaagct gtatcagctg 300
cgggaggaga gggacatgaa gcccgagacc tttgccagcc ttgtctctgc gtcctctac 360
gagaagagat tcgggccata tttttgccag ccaggcattg ctggacttgg agatgacaac 420
gtaccattta tttgtactat ggact 445

<210> 21061
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D5

<400> 21061

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aacggtaact catctgatag cgctctgca gaagaaaata ctgagactgt atctggtgat  180
gatgagaagg gcatgggaac aggtacaacc actgaagcgt catattccat acaacagaac  240
tctgagaaca gcagtgtctc agctgaggca gagaattccc aaggggattc ttccagcgga  300
gtgaatgggt cttcagaaga gacatctaac aagggtgatg gagctacaga aacgtctaac  360
aagggtgagc aggtggatcc caagattgaa actagcacat ccaccaatgc cgagcataat  420
gaatctcaag gggctgat                                     438
  
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<210> 21062
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D6

<400> 21062

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ttcatcggga atcaggacaa ccagttgaca tggtttagagc tcacatggat catgctaacc  180
agagcgcaag ctgcagccgg gatatctgta aaggaagcgg atgcacgggt agcgggtgaag  240
ccgataccaa tgcgaatacg acggttggcc tagagagtgg caacgagagt ggcatccaat  300
atagtgacag gtctcaccga gaagctgctt tgatgaagtt ccgcatgaaa aggaagacag  360
atg                                     363
  
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<210> 21063
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D7

<400> 21063

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gtcttgacac cagggttcatt gccctttgag aaattgtggg agaagttttt acagggacat 120
gaggggaagat actccatcta tgtgcatgca tcacgtgaaa agcctgttca tactagttct 180
ttgtttgctg gccgggatat tcacagtgat gcggtagtat ggggattgat ttcaatgggt 240
gatgctgaga aaagattggt agcgaatgca ctggaagatg ttgataatca agtttttatac 300
ttgctttctg acagtttgtgt tccactgcat tcatttgatt atgtgtataa ttacctcatg 360
ggaacgaatg ttagcttcat tgattgtttc aaggatccat gtccacatgg cagtggaagg 420
tactctattg agatgta 437

<210> 21064

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-D8

<400> 21064

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ccttctgcc aaggcagaaga cccggacgac cggaaggaga atgttacagc agataaatcc 180
gcgagagttg ttcagcatcc atgcatgacg aacgggggtg ccatgtggcc atttagctgc 240
gcgccaccag taccggcctc tgctgttac ggcccaggca gcatcgcaat cccgttctac 300
ccggcagctg ctgctgctgc tgctgctgct gcctactggg gttgcatggt tccaggagct 360
nggagtggcg catgggccgc tcactccggc cagtccgaga cgggctc 407

<210> 21065

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-D9

<400> 21065

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gcatggaagt atgtggcaag tggttttccc atgtcacaaa ggatgataca aggctaccat 180

cttctgtgga gcagtctcat acatctatgt ctcaaaagat ccttctgata atttgcatgt 240

ctgngagaga tcctattaga ttgcttcctt gtctcctgga tgcatacaact caaaatggag 300

tccattttga cctgtgecta tttgtgccga actcaatata tcacacgaag cttgattctt 360

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<210> 21066

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-E1

<400> 21066

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tttcacttac tttgctaata gcaaccgtcc tagttattct tcctattact ttacctccac 120

aaatgcttat cttctaaaac tctcaactca ttaattttac tcatatacaa ctatatactt 180

atgtacctct aacttaactc ttatcatatc ttaccactct ctcttaatta ataccttta 240

tccttctcaa attaaattcc taatatatat cctcagaaac ataaatatac ctttttctta 300

aatcgcatth ctagataaac cttttata 328

<210> 21067

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-E12

<400> 21067

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tcttctctgt atgatacaact gctggagcag aatctctgca gggttgattga gccctactca 180
 aggggtggaga ttgcacatat agcggagatg attgaattgc cgattgacca tgttgagaag 240
 aagctgtcgc agatgatect tgacaagaaa tttgctggga cactagatca aggtgctggc 300
 tgcctcatta tctttgagga ttctaagacg gaggatatct tccctgccac tctcgaaacc 360
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 ngaaagcagc tagtcttacc tg 442

<210> 21068
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-E2

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 tctgttaag accatcaaga caaatgttat tggtagcctg aacatgctgg gacttgcaaa 180
 gagagttgga gctaggattt tgttgacatc aacatctgaa gtttatgggtg atccacttga 240
 gcacctcaa accgaggcct actggggcaa tgtaaccca attggagtcg ggagttgtta 300
 tgatgagggt aagcgtgtag cagagacgct gatgttcgac tatcacaggc agcatggcat 360
 tgaaatccga atgccaggat tttcaacacc ta 392

<210> 21069
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-E3

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 nnatagatat atcagtatat anntatatat anntcggcac gaaacataca tannctgttc 180
 ataanntagt ttgaaagtgc ctttaaaggt caacaagggg catgtgtgta caagtaaggg 240

nnttggcgtc cctaggggggt tagtttgggt gaacccataa aaatggaggg gaatctnnat 300
aaaggagaga tcccgttngt taattcaaaa attaaaataa ccaagaagga tcccctcttt 360
ccataagatt cccctcttcc atttttcttt gtcccacnca aaaccaaccc cnntgagttt 420
c 421

<210> 21070
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-044-Q1-K1-E4
<400> 21070

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eggctgcgct gctggcttcg tccgcttcgg cgccgatcac ctgctggcag gtggggtcgt 180
cgctggcgcc gtgcatcccg tacgcgacgg ggagggccag cgcgctcccc gcgtcgtgct 240
gcagcggcgt caagagcctc aacagcgagg cgcgaccag cgcgaccgc caggcggcg 299

<210> 21071
<211> 246
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-044-Q1-K1-E5
<400> 21071

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tcccgtagtg tcggaatgcc agggctctgt cctgtgggtg tggtgcgtaa ctgggatccg 180
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ggagct 246

<210> 21072
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-D11

<400> 21072

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aagcgccgaa agatgaggca gagatccaag taggctgatg gggattgtgg atggtggtgt 180
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gccatctatc gtggtttcta gctatatcca gagttttgtg ctaagacaaa tcagtcagtc 360
gttttgtgaa cctattatga tggagctcta tttgctgcta atatcgacct acctattaag 420
taattgc 427

<210> 21073

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-B8

<400> 21073

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ggcgatggcg ccaggtcgag ctcacagctg atcgagagga agatcgaggc cctggaggac 240
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gaactcgtcc cgcgtcttta cgttgaagag atcaaaggcc tattcgctcc tccgccgtgg 360
ggtgagcaag tgcccttgtc agcattctac agggcaaattg ttggtgaatg ggattccttc 420
aggagcattg acatggatgc tg 442

<210> 21074

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C1

<400> 21074

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aagcacgtca ctggtgaagc catttgaaaa agagggtgtt ggcacaactt ttgcatgagc 120

cagagccgaa gctgaaaaat aagccctacc aaagggccct aaatgattaa agcttaaact 180

cacattatca tgcaagcttt tctttcttgt ctactgaaca tgcattgcatg catgcatgga 240

cggaataagc agtagataaa agaaatgcac aaccagtctg ttctgttgaa ttgaattgaa 300

tgttcactac tacgactaag caaagaaaac ctgcagtcgt cttcagctac taaccagcgg 360

cggcgggtcc aaggcatggg ctggcaagtt caag 394

<210> 21075

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C10

<400> 21075

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ccacggcggc gtgcacgacg gcaccaccgt ggtgctgtgg gagtgggcca agggcgacaa 180

ccagagctgg aagatcctgc cctggggcga cgaggcctac gccgcgggag gcagcagcgc 240

cgccaacgcg ccccgcttcg gcggcggcgg cgagcccacc gtccgcatct actgcaaggc 300

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<210> 21076

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C11

<400> 21076

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tgagacagat tggaggcgac aagatggaga cgatgtggaa ctcacaattc tagacgttga 180
 tccctaccac tatggttagta acaatgagga gatgcttctt gatgacttga aggtatcaca 240
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 gcttatgcaa gagaagcagc aaagctgtgt tgttgttgta gataatgaag attttcttga 360
 gggaattgta acattaggtg accttcgtcg taaaggattt gtgccaagtg aaaactctga 420
 tagtaccag gcaaattcat cg 442

<210> 21077
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C12

<400> 21077

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 gccttctgat cgtcacccat ggccactgcc gaggtccaga ccccgaccgt cgtggcgacc 180
 gaggaagcgc cggtggtgga gaccccggtt cgcggcgccg tcgtgcccga ggaggctgcc 240
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 gccgctgagc ccgaggcggc ccccggtggc gcgagggaag agacgccaaa ggaggaagag 360
 acggcaaagg aggcggagcc ggagccggag ccggcgggcg ctgaaaaggt gaaggaagaa 420
 gcggcagcg 429

<210> 21078
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C2

<400> 21078

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 cacagcataa gctgaaaaaa aatctttacc aacatgactt acatcattaa agcttagact 180

aacattatca tgcaagcttc tgttgatcgt ctactgcaca tgcgatcatg catgcatcga 240
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 aagttact 308

<210> 21079
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C3

<400> 21079

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 tgcaagtgcc gaagctggag aaccggagcc tgccactgct tcagctgaat ccgaagagga 300
 ggtggccgag gggctctgctg ctgtggcgga agcggaggaa ccgacgccgt cgagcaagcc 360
 gaaggttaag ttccggcga aa taattgggat tctgaataag cagttcattg aggaggctga 420
 gaaggtgaag actgtaccgg atctg 445

<210> 21080
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C5

<400> 21080

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 gtctatatct ataccctgta tgcctaacta caacctagtc acaccttcg cttaccataa 120
 tcctactata tcaccactca tctgccctca taatcctaac acttagactc ctcatccaa 180
 catatttccc agatcgcttt ctctctccag atcactcaca taatttccca cacttatcct 240
 aatcccccat ctagagaacc gtagactacc catgtttcac c 281

<210> 21081
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C6

<400> 21081

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gggtccccgc gatggagccc tcaccaacct cctcctcgcc ggctgtggcg cgccggttgt  120
cgccggaggt aaggaggggt ccgaagcggg cgctggagga gttggtggag caggtccagc  180
gggctgttga gatgctgcgc gatgccgacg ctgatctcgc catctctctc tcggaggaga  240
ccgcagcagc ctgcgccgag gccgaggacc gcaaggacga tgttgggtgtc gatggagatg  300
gcatggcgac gtcgtcgggt gcgagtgact ccgattacga gacgacgcag atgtgtgacc  360
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agtagatc                                     428
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<210> 21082
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-C7

<400> 21082

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acgaccactc cctcaacaac gccttcagca cctacggcga ggtcctcgag tcgaagatca  180
tcctggatcg ggagacgcag aggtcccgcg gcttcggctt cgtcaccttc tccacggagg  240
acgcgatgcg cagcgccatc gagggcatga acggcaagga gctcgacggc cgcaacatca  300
ccgttaacga ggcccagtc cgcggcggcc gtggaggcgg cggtggcgga tacggtggcg  360
ggcgccgtga tggaggcggc taccgcggtg gcggtggaag cttacggcgt ggtcgtggaa  420
gcctaccgcg gcgtggggga t                                     441
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<210> 21083
 <211> 474

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-C8
 <400> 21083

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 ctatcccgtc aatcaagcct ctcgtaagga acaaggaagg tagctagcta gttctatagc 120
 tgctgtcgtc gtcgtcatcg gcggcgccgg cgctgttct tagaggataa ggttgctcta 180
 gcggagaggg agctagccag gatttcggtt gagatcaaga gggggagcag gcggcgccgg 240
 cggcgatggg gcgcgggaag gtgcagctga agcggatcga gaacaagatc aaccgccagg 300
 tgaccttctc caagcgccgc tcggggctgc tcaagaaggc gcacgagatc tccgtgctct 360
 gcgacgccga ggctcgctc atcatcttct ccaccaaagg gaagctctac gagtattcca 420
 ccgattcatg tatggacana aatcttgacc ggtagcagcg ctactcctat gcaa 474

<210> 21084
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-C9
 <400> 21084

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 aggcaccaga agccccgggg cagcccgtg acgcgcacgc cgcaggtgct cgtcgctgc 180
 gcgcgcaagt ggaacgtggc cgtgcccgcg gacaagtcgc ggctgcacga gacggtggac 240
 ggggagtcg gcacgaggg gagccgcaag ctggagcact cggagcagct ggcgtgcctc 300
 gacagggctg ccgtggtgac ggccgatgac ggcgcgagg cgagcccgtg gcgcctgtgc 360
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 gggatcgtgt tcgcg 435

<210> 21085
 <211> 399

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-D1

 <400> 21085

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 tgtagtgagt atcttcgata ttactttaac taccatttat gtttgtcctt ttgaaaatgt 120
 attaaccatt aattttgctg agatagagct agatactcat gtacctctat gtttgtcctt 180
 gtgatctctt gaaacttgct ctttaattaag accttttaggc cttgtagaat tgtagtctta 240
 atttatatga tgggtgacag agaagtagct ttttctgaaa tgggataatt ggataaactt 300
 tttagtataa ttttgtggag tgttattggt gctgaaaaag atcgaggaag atagatttgt 360
 acttgtagt gtccagggga tttgcagagg aagcatttt 399

<210> 21086
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-D10

 <400> 21086

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 cgctcctcct cctcccagcc gcagctggc gcggcgccgg cggtcctggc agcggcgctg 120
 ctgctgctgg cggcgggggc cgggacggcg tcggcgccgg tgagctgcgg cgaggtgacg 180
 tcgtcgggtg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcgggc 240
 tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgtcgt cggcgggcga ccggcaggcc 300
 acctgcaact gcctcaagag catgacgggc cggcttcgcg gcggcgtcag catggccaac 360
 gccggcaaca tccccggcaa gtgcggcgctc tccgtcggcg tgcccatcag cccaccgtc 420
 gactgcacca agatcaactg atcgatg 447

<210> 21087
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-B7

<400> 21087

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agtcttccaa tcctccttac actgattatg tttccaccag atgggtatcg gctccagagg 120

ttctactgca atcttcagtt tatacacctg ctattgacat gtgggagggt ggtgctatct 180

tggctgagct ttttacctg tccccacttt ttctgggtga aagtgaaact gaccagcttt 240

acaaaatatg cactgtgctt gggaccctg attgcactat ttggccagag ggaatgaacc 300

tgctcgttc atgcagcttt aagttttttc agaatcctcc aagaaactta tgggagctta 360

ttcctaatagc ttcactgaa gcaatcgatt tgatccagca actttgttcc tgggatcctc 420

gaaggaggcc aactgctga 439

<210> 21088

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A12

<400> 21088

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cgtatgcacg tacagggacc gaacagacac tgcgagagt agcatacttg tataccaagc 120

cgtgccagac tactcctggc tacaagcgtt caagtgaac aactgcatga gaaccacagc 180

tatccaccgc tacctacaca gaaatggact acagctacaa catcacgaac atatgccaga 240

cagt 244

<210> 21089

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A2

<400> 21089

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tggctctgtt aacttgctgg tcccagagg aaatctttga ctgtaaaatg atcctgacaa 120

gtaccatttc aagcccaagc aacttttgaa acagattgcc accatctatg tccatatctc 180

aaggggctac atctaattctc tcttctcatc ttcaattctca aaagatgtca catcatacaa 240
 tgatcagttg ttttctagtg cagctaatat tctgtggaaa attgtggctg atcccaaaat 300
 cata 304

<210> 21090
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-044-Q1-K1-A4
 <400> 21090

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 tgcaagctct gcaaggtgag gtccgttcag tttggccaga agggcatccc ctacctgaac 120
 acctacgacg gccgtaccat ccgctacccc gacccgctca tcaaggccaa cgacaccatc 180
 aagatcgatc tggagaccaa caagatcatg gacttcatca agtttgacgt cggcaacgtg 240
 gtcattggtga ccggcgggag gaacaccggg cgtgtaggtg tgatcaagaa cagggagaag 300
 cacaagggcg gcttcgatac catccacgtc gaggactcca tgggccacca gttcgccacc 360
 cgcatgggca acgtgttcac cattggcaag ggcaacaagc cgtgggtgag cctgcccaag 420
 ggcaagggta tcaagctcag catcatcgag gaggc 454

<210> 21091
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-044-Q1-K1-A5
 <400> 21091

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 agccaaaaac gccgccaagg atccttctct ctctctctct ctctctcttc gcgtccatcg 120
 acctgaccgc ggaggcgcgt gcttcttctt cccgctctcc actgcagtgt catgaagatt 180
 gagggaaact tgcatgtttg atataccag ctgctttctg taacgaaaaa ctcgtgatca 240
 ttttgttgaa ttggtcactg tcaggaggag atctacttgt cagtttttgg tattaaggct 300
 gctggccttc ccttgcaggg tatctgtaga ataaatggga gaagcacact cggatgaatt 360

ttgccattgc caggggtg

378

<210> 21092
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A6

<400> 21092

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gtgcaaaaac gccgtcaagg atccttctct ctctctctct ctctctcttc acgtccatca 120
acctgaccgc aaacacgcgt gctatctctt cccgctctcc actgcacaga catgaagatc 180
gaacgaaact tgcattgttc atataccag ctgctatatg taacgaaaaa ctctgatca 240
ttgtgttgaa ttgcacactg tcatggaggg atctacttgt cagatcccg tattaagct 300
gatggccttc cattgcatgg tatctgaaga ataaatggga caagcacact cgaatcaatt 360
gtgccattgc cagacatatg ctagcaagta tgcactactc ag 402

<210> 21093
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A8

<400> 21093

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ttctctccac atggcaggtc gcacttctc tcaagtctac catatccctc catctacagc 120
tcacgacaaa acgtccacct aaacaatctt acctatagtg aaaatccaat catctacatg 180
acgatccacg gatataact ctactgtgca ctaaccagtg tgcctaagag acattagctc 240
atcctgagca tttacctgtc tatagccact cggattagcc atcgccacag ctttgcttgc 300
atttagtaat cttaccaatg gctatgcaaa ctgcttatgc gtactctaca gctgcttcc 360
agccttaacc ctcttctctg ccttcgatcc gactttta 398

<210> 21094
<211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-A9

 <400> 21094

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 gaggaagcga gcgcgcgaaa gtatcaggag gaggcattggg taccctgggg cgcgcgatct 120
 tcacggtggg caagtggatc cggggcacgg ggcaggccat ggaccgcctc ggatccacca 180
 tccagggcgg cctccgcgtc gaggaacagg tttcaaggca tcgtacaatc atgaatattt 240
 ttgagaaaga gccaaaggatc catagagatg tgtttggtgc tcccagtgc gacgtcattg 300
 gggatgttga gattgggtcat ggatcgtcaa tctggtagcg atccatattg agagggtgatg 360
 tcaacagcat tcatattgga tctggtacta atatacaaga caattccctt gtacatgttt 420
 caaaagc 427

<210> 21095
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-B1

 <400> 21095

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 gcatcaagcc ccacgcttaa ggtcagggtt tctggtggag cgtcagggcg atggtgtttg 120
 gggcgttcct ttatcaacaa ggggtagaga aggaagaagg ttaatggaga ttcggaatgc 180
 acttgaaatg attcaaaggg gggaaaatgt aaggctcgag tctatcttct atggcggcct 240
 cgacattcat gacagacaca gggacatgcg ccttgacatt gacaatatgt cctatgagga 300
 actattagca cttgaggaaa ggatcggaaa tgtttagcact ggcctcagcg aggaagctgt 360
 gataaagttg ctcaaacaaa ggaaattttc atcgtggaga ctataagcat ctttggaccc 420
 agaaccatgc t 431

<210> 21096
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-B12

<400> 21096

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ttcgcggcca cgtacaagaa ccgcacggcc aaggccaagg cggccatcct cctctaccac 120
gccgtgccgg actactttctc gctgcagctg ctcaagtcca acaacggcat ggtcaccacg 180
ctggccaccg ccagcgacaa gaagatggac tacagctacg acgtcaagaa caaaggcgag 240
acggtcacgc tgcagaccag ggtcgtcacg tccagcgtca ccgccaccgt tggcgacatg 300
gagccgttgg ccgtgtatgc cgtgaacaag ttctgcagc ccaaggagct cttcaaggtc 360
gtcgaagcgc ccgcgccccg gccgggaccg ttcaagaaga ag 402

<210> 21097

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-B2

<400> 21097

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gggtcaaagg actacgtaca cgtgcgcata cagcagcgta atggtcgcaa gagcctgacc 180
accgtccagg gattgaagaa ggagttcagc tacagcaaga tcctcaaaga tctcaagaaa 240
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cagggtgatc agaggaagaa cgtctcgaat ttctctgtcc aggccggcat tgtgaagaag 360
gagcacatca agattcatgg gttctgagca accgncnggt ccatagcana ccaaccctgc 420
atgcagggcc agcttattat atataatatc tga 453

<210> 21098

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-B3

<400> 21098

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tatgagggaa gaaaggagac tatggcatct gggcaggcta ccagtgcac gaatgcagaa 180

cctaacgaac atgacaactc agctcactcc gagggcactg tacagactcc acatgaacgt 240

gttcgcctta gttggatgcg tgctctgcat cagcttgctg ctagtacaac ttgcgcagaa 300

gctatggcag caacaagtgc atgaactcct gaggttgtag cactgcttat gaaagcaatt 360

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<210> 21099

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-B5

<400> 21099

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aatgttacgc gccctacagc tgtgcattac ctctcgcgta tgacaagttt acccacagct 120

atacctgcta cactgtgca 139

<210> 21100

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-044-Q1-K1-A10

<400> 21100

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acaggagagg ggataagaga tatagccctg agaagaatgg cccttacaac tgatgaactc 120

aaggccaagg ccgaggtata ctacggtgac gagatctgcc agctgtgtac ccagctcctg 180

ctcaggaag caggcctccc caatggtctg ctccattga aggacctaata cgagtgcggc 240

tatgtccagg aaactggatt cgtgtggctg aagcaaagca agaggggtga ccacatcttc 300

catagtctan gaaagctggc ctcttacggc aacgagatca ccggctatgc cgagaagggc 360

aggatcaaga aggtcaaagg gataaagacc agggagctca tgctgtgggt cccggtggag 420
gagattgctc ttgatgatga 440

<210> 21101
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-B6

<400> 21101

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gtgggttggtg gcactcgtct tgctgttagt tgggtaagta aatccatatt gctgggttcag 180
tataatttgtt gtagacatgt ctttatgcgt ttattaaaca tatattgcag aaaacgtgct 240
acaaagattc gtgattctgg actaatgcta aattttggac gagctataaa gatattactt 300
gtttttgtga aagcttgaaa tagcactaat gtcaaattct tggggcacag gtttgtgatt 360
tcactagtga tgctttttcaa aggaagaac gggaacgatg gctgccattg gtgccactac 420
ctgaactgcg tgccaacatc caagtgggag tgt 453

<210> 21102
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-G5

<400> 21102

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ctcgggacga gttacttaac actcagagca gaactcaca ctcaaagcat tccatgtaca 120
tacaaaacct actataaatt acaatataca ttaacatact tcacaatcac attctcaatc 180
ctaataagc aaactaataa caaatcacac acaatgatct attaccaca caactcaaac 240
ctacttccac accttcaact ttttgatcac cacttttaca ctctactaca ctaattactc 300
taacattctc cacacatact cattaatcac ttc 333

<210> 21103
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-G6

<400> 21103

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 aagagggttag agaagctggt ggagaggcag atagaatatt ggaaggaatt gcagagatgt 120
 ggctgctggct ggtgcaggct ctacgcaagg tgtgcatgga tcaaagagaa gaagtgagga 180
 accatgcatt gttatcggtg catagatgct tggtagttga tggaatatca gttaagtctt 240
 caacatgggt gatggcattt gacattattt tccagttgct tgacgaactg ttggagattg 300
 ctcagagcta ctcaccaaag gatttcagaa acatggaggt atctctcttg catgctgtaa 360
 aactgttatg caaggtgttc ttgcagtcac ttaaagacct ctcaggacag cacagttttg 420
 ataagct 427

<210> 21104
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-G7

<400> 21104

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 tatcgctgct tctagttcag actctacgca aggcgtacct ggctcaaaca gaagctttca 180
 ggatccatgc attgacatct gtcactctat gctcgatagt tgatagacta tcagcttact 240
 cttaaacadg ttgatggca tttaccatta tttaccagtc gctcgacgat ctctcgtaca 300
 ttgcctagag ctactcacc aacgattcca caatcatcta ggtctctact cttgcatgct 360
 g 361

<210> 21105
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-G8

<400> 21105

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ccctatcact attacattct ctactcaaga ttgcgcatctc tcaaacacaa gaattcatga 180
tccatgcatt gatatctttc catcaatgct ccatatttca tccaatataa cctaactctc 240
caacatacac tatctcattt accattacct tccagtttct cgatcatctc tcctacatta 300
gctagagcta ctcatccaac gatttcataa tcatataagt atctctct 348

<210> 21106

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H1

<400> 21106

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agagcagcac ctcaatgtgc ttgggtttgc tttgctggct ctctgttttc gtcttgtgtt 120
gcttttaatc tggcacaggt ttctaaatta taataatgaa tacttttttg tccatt 176

<210> 21107

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H12

<400> 21107

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cgcgattgtc gcggttttgt ccgtcaccat cgctcgtcgg gcgccgctac tcgacgcgca 120
gtccgtactc ccgcataccc tctaccgggc gccgctcctg gaactcaagc gctggtacgc 180
cgccgagttt ggcgactacc tcatggccca gcccccggc ttcttcctgt gccttgtttg 240
cctcgagctc gccttccaat ggccgctcgc cgtcgccaca ctctacggca tcctcacccg 300
ccgccgctgg gctgccacca cctccctcat ggccggcggtt ggcaccctca cctccatgtc 360

tgcaattctt ggtgagatgt taggttcaag caaatcaaca ccaaagttgc ttt 413

<210> 21108
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H2

<400> 21108

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ggttcatggg gagcaaaggc accctgcatt gcaacatggg caacgtttca actcaaaagg 120
ctagaaccac ctggattcag tttccagatc gtaaatacaa atcttgatga agttagccct 180
cgtgctcgac gaagaagtgc tttacttaca tggcaacata tagcatcgct gccaccaat 240
ttgcctgtta tctattgtgg aggcttcaat acacagaagg aatctatgac tgggcgggttt 300
ttgcttggca gatccagaga acatggtgtt gctggtgata tgagagatgc ttggccaaat 360
gctcgagtgc gaaaaaatgt ttactaata cacacatata atggatttaa aggggagaaa 420
caaggtgccc tggaatttct taaat 445

<210> 21109
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H3

<400> 21109

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ggcgagtcgt ccgcccgcga ccgggattcc ctccgccaaag cgcgatctg aacgtgcgc 120
tccgtgtcgt cgctcgaatc cgccatgaag ggggccaaat ccaagggcgc cgccaaggcc 180
gatgccaaagc tggcggtgaa gagcaagggg gcggagaagc ccgccaaggg caggaagggg 240
aaggccggca aggaccccaa caagcctaag agggctccca gcgctttctt cgtgttcatg 300
gaggaatttc gcaaggagtt caaggagaag aaccctaaga acaagtctgt cgctgcggtg 360
ggaaaagctg ctggcgacag gtggaaatcc ctgagcgagt cggacaaggc tccctatgta 420
accaaggcta acaagctcaa gctag 445

<210> 21110
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H5

<400> 21110

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 ccggacccag cgaggggggtg gcggcgatct ccaaaggggg gaaggtaggg cctaaccggt 180
 gcagcgctg caggaagagg gttgggctca cgggattcaa ctgtcgggtg gggaacttgt 240
 actgcgcgct ccaccgctac tccgacatgc acgactgcaa gtccgactac cggctctgctg 300
 acagggacgc cattgccaa gctaatacgc tggatgaagg agacatgctc gacaagatct 360
 aaggtggggt ccctacggct ggtgtcaaga agattgtaat accgcgtaac tcgtcatg 418

<210> 21111
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H6

<400> 21111

tcctcttcac tcagctcatt ctgcgccatc cttttctgta taattttctt tgatctgtgg 60
 gggttgcac catgggacgc cctcatcttc ctgcactaca gctggcctcc tgtgcttact 120
 acgtcaatca ttccctccat gagaaactcc ttctctccta catcgctta gctatctact 180
 tcacaccaga agccattccg ttccactaac caatccatga ctcttagtgc ccaaactcgg 240
 cgtcctatgt ccccatatgg atgagtcatg ttcttggatc cctgacatca cacatattaa 300
 cacaaaccgg ccattcaaaa tctggacatg caagcttgca tagacatgct ttgaacagtc 360
 agatctgcaa acaac 375

<210> 21112
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H7

<400> 21112

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cgggcatgct tcttgcgcca cctccagtcg cagctgggaa gcttagatct tcacttccac 120
caccaccta cgaacctgca gctgcaagga tgaattctgg acatactgca ggaatcagg 180
ctccaaaaga acccaccacg agaaataacg atcctttttc agatctttct gctataaagc 240
aaaatctacc ttcattctgct gaaccgggac aaacaaagag cacaggagct ggatgggcag 300
cattctgacg atggatgcat gatctactgc tactattggc attcgtgtat ctgaagaacg 360
ggaatgggta gttgaagcac cgaacaagga tctggaactg ctggatgcct ctacctctct 420
cgaaactgaa t 431

<210> 21113

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-H8

<400> 21113

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gaagagacac tccaacgcgc tcttaagctc gtcaacgagt gccagaggaa gcacgtcgtg 120
ctccattact taaatgccgg cggcatgtcc aagaagctgc gccaggtgca ggaggatata 180
tcatataaat tgtggaatgg ggtcttggcc accgttgtcg acacaaggat tgctttggaa 240
aagcagatcc aatctgctat tgatgccct ctgcaccaac accaacagcg tgcaaggcaa 300
gtggaaacct caciaagtag tcattcaaga actgatcaag ctagcgagaa aggaaaggcc 360
atgttagcaa gagtaaaaag ggagcaatct gaactttt 398

<210> 21114

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A1

<400> 21114

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 ctggataaat ttaaaaaaaaa aactattcaa ataccataa taactaaaa aatataataa 120
 tatactatta ataaaacccc ctaatcactt tcttattaaa aaaaatctcc accttttcat 180
 catccacttt taactacccc ttcctttccc caaataaccc tttactaccg gtccccaa 238

<210> 21115
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-G4

 <400> 21115

cgcgcttggt tttttttttt gtaggcaact catcaaaccg cgtccattcc aaaagcaact 60
 ccaaataatt gtacaaagat gctgaccca gccatgccag ataaacatgc gacttaaaat 120
 aacagtctat caaccaagaa aagctatgta gatgactgac gactctgatt tcaccgaaca 180
 caaacattca tctcggagaa aacacaatga aaatttgagg ggaagctgaa ccttggaac 240
 gaaatgaatg gaatggcatc catttgacc ttgtttgcct tcaaccttca ctctttatca 300
 tccttcttat catcgatgc aggagcctcc tctttctctg cattttcctc cttgctgggc 360
 tctgccactg ttaacttctg tgccaaatca gaagcggcag tggagacttc atcattttct 420
 ttctcctcgc tctttccttg ctgttcagct atctct 456

<210> 21116
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-F1

 <400> 21116

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 tgggcgttct cagattgaga cagagaagct tctagcccag ttagttgaga ctgagatgaa 120
 cagacgtttg aaggagggca cttacaaagg aaagaagttt aatgcaatct gtcacttctt 180
 tggctacca gctaggggag cactgccttc caagtttgac tgcgattatg cctatgtctt 240
 ggggcatgtg tgctaccaca tcatagctgc cggtttgaac gggtacatgg ccacagtgc 300

aaatgttaag agtccagtga acaagtggcg atgtggtgcg gtcctatatt cgtctatgat 360
gactgtgcag cgatggtcgc gtggcccttc agccacccaa atcggaaagc ctgctgggtca 420
catg 424

<210> 21117
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-F2
<400> 21117

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caaaccggca gtggtgggtg ctatcccaga tggcgggcag catgcctcgc ttatctaggc 120
atggtgacca ccttttcgtc acatggaatt ccttatctgg ctattaatat tgattcattg 180
tacattctaa tattgtactg tgattaggct atactcgtt tgcattgtctt tcaccgatag 240
atggccagag tcatatcctg ccaaccaagc agagcagcca ttctgatttt ggtctatgat 300
acttttacca acaaaaatta agaat 325

<210> 21118
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-F3
<400> 21118

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gtgcgagtac gatcgacagt gtggacggtc acttcttgca cctttctgag cctcgggtcc 120
ccagtgcggc cggcagtcct ctccgcgaga ccggcggcgg cggcgggtggc ttcccgacgg 180
aggccccggt cctttctgt gtgctgcgag gccggccgga aaggggatca caacccaaag 240
acggatctgc atccatttaa catccctgcc ttcgttctgg tgcacccggt ggcaccacgt 300
gaggaacgat ggcagctgga ggatgacgcc gacaagggtga acctgtggtt cgaggtgcct 360
gggcagtcca aggatgacct caccgtggag atcgacgaag acgtgctcgt catc 414

<210> 21119
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-F4

 <400> 21119

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 tagttcatcc cacatgtcag gcatcatatc tagcttacct agtcatcggt accaccctta 120
 atccacattc aattccatat ttactcttta ttattgctac attatacatt ctaatattat 180
 actgttatta agctttactc catatacaca tctctcacac actatatctc cctattcata 240
 tcctgtcaac caacacaaac acacacattg attatcgtct atcatacttc caccaacaaa 300
 ataca 305

<210> 21120
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-F5

 <400> 21120

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 agcaagcaca ggcagctgga gtcggaatgc tatctgcaac taattgacag cgcgtgtagt 120
 gcgctgctcc ccggggccga accttgcatg atcggaagct tgccatccgg gcacacagcc 180
 cagaccaacg gcatccagga agacgttaca tagagctcgg ta 222

<210> 21121
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-F7

 <400> 21121

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 cggcctaact tcaagaaggt cattggtgag gtcaagcagg cagagtctgc acctactatt 120
 ccgaaaaagg ctgctccttc taaggagcca aaggcaaagg atgtcaagaa ggaggctcca 180

aaggaggccc ccaagccaaa ggtgggtgag gcaccagcag aagaggaagc accatagcca 240
aagccaaaga atcctcttga cttgctgcc acaagcatga tggtccttga tgactggaag 300
aggctatact catacacata gaccaacttc cgagagggtt ccatcaaagg tttctgggac 360
atgtacgacc catagggcta ctccttgtgg gtctgtgact acaagtacaa tgatgagaac 420
accgtcttcc ttgtgacc 438

<210> 21122
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-F8

<400> 21122
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ggaacaatct tgcctttcgt actctatctc cagaaaacat tgcgcaggag gcctttctta 120
ataaaaaatc ttgaaaatgt tatgcgcaaa ttcctccaat ccttggagtt ctttgaggaa 180
aatgagagga agaaactcgc catattcaca gcccttgcac tttctcaaaa gctgtcaggg 240
cttctcccg agacagtgtt ccagccattg ctcaaggata atctgggtgc caaagggata 300
gtactttcat tcataactga gtttttcaag gagtacctga aggaaaacac cttggatgat 360
ttgattgcgc ttttgaagaa aggaaaaatg gaggacaatc tgttggactt ttttccatca 420
gctaagagat cctctg 436

<210> 21123
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-G1

<400> 21123
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cgcttgattc gctccacaag cagaatcctt ttgcatagaa tttcaccaac ataatcgctt 120
ctcttagaga atcacttctc agtcctcaca gatccaggag tgcaggagga gctctagcgc 180
tctaccaaac aggctaaca agagaacgga agttatggga gtagtggtgc ctacttgtct 240

tgctctcttt atttaatttc tccaacactt cttgatcact gtgtggcagg aggtagcaag 300
 agcaggctag attattgaac tgcgactgat ctggactgta actcgctcca cattttctac 360
 cgagctctgt gctctgcagc tcgcacgcct ttgat 395

<210> 21124
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-043-Q1-K1-G2
 <400> 21124

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 agctgacaaa tggagaaaagc cccttgcaaa gtttttgagg cagcctcatt ttattgtgtg 120
 ggataacagt gatctcatca ctcatgaagt catgggtggc ttaaaaaatg tctatgctat 180
 tgggtgctggt atggttagctg cactaaccaa cgagagtgca accagcaaatt ctgtttactt 240
 tgcactttgc acatctgaga tgatctacat cacacacctt ctggaagaag aacctgaaaa 300
 acttgctgga cccttattag ctgacactta tgtcacattg ttgaaagggtc gtaatgcatg 360
 gtatgggcag aagtttagcta aagggtgaatt gacattagaa atgggtgaca gtattaaagg 420
 aaaagggacc attc 434

<210> 21125
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-043-Q1-K1-E9
 <400> 21125

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 tccttagaag atgtgccgcc ctttgatacc tactcgoggt ccatatactc agtacagatt 120
 tcttggaac ttatagcaga tcacgtctaa atatcgccct accatcactc caatcggtca 180
 tggagcctac cgcactcttct gctcggcggt gaactcggag acgaatgaaa tggtagcggt 240
 taacaagata atcaactctt tcgataatca catggacgct aagcgtacgc ttctggaaaa 300
 taaccttctc cgacatttgg atcacgagaa tgttatcacg atctgagatg tcaactgcttg 360

ctcttt

365

<210> 21126
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-043-Q1-K1-G3

<400> 21126

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cggccggagc gactcgccac cggcgcggag aaggagggcg gaggctaggc gatggcggac 120
gagaatgagg ctgggaagaa agaggaagag gaatttagca caggccctct gtcagtacta 180
atgatgagtg ttaagaacaa caccaggtt ctcatcaatt gccgcaacaa caagaagctg 240
cttgccggg ttcgtgcttt tgatcgccac tgtaacatgg tgctcgagaa cgtgcgggag 300
atgtggacag aggtcccaa gactggcaag ggcaaaaaga aagctctgcc tgtgaacaag 360
gatagattca tcagcaagat gttcctcang ggcgactcgg tcatcatcgt gctga 415

<210> 21127
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-D4

<400> 21127

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tcttgaggca gagatgtcat ggaatgtgtt gatctcacct agccagctgg accgcaaggg 180
cctcctgtc cgcaaggcta tcattgtgcg tcttctggag gatgtcaca acaggagggc 240
ttcgaaagag catggctact acattgctgt taatcagctg aaggcaatat ctgaagggaa 300
agtgcgtgag ctaactggag atgttctgtt ccagtttca tttacttgca ttacacagaa 360
gcctatgaag ggagaagtca tggttgggca cgtggacagg atcctcaagc atggcgtgtt 420
cctca 425

<210> 21128
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-D5

 <400> 21128

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 tctggcaggg tactttctcca tgccaggcca tcatttacat ccaatactaa atacctccat 120
 gcagatactg actatactac tatcactatg atctgagcta tattagttct tctacctttc 180
 ttcaaccctc tctttgatga actcatcctc ctacaagcca tcatataacc actaccattc 240
 attactgggtg tgtctgctat cctactttat cttcacctga atgactatcc tctcaatgaa 300
 ttata 306

<210> 21129
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-043-Q1-K1-D6

 <400> 21129

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 tgtccctctt gtgtgcctgt acaatagaaa tattgcagac ttacaacaca catgtaaact 120
 ggtgtcactt tatttcacag aaatagcaat gaataaaata aggttaagca gtcttgaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaggggggg agagtttagg ggtccaaggt ttaaaaacgt gtgattggga ataaaaattt 360
 ttttattggg gtcccctaaa tccattttat tgcccatttt ttaaaaactt cttaatggga 420
 aa 422

<210> 21130
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-D7

<400> 21130

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gcgacgctga accatccgcc agctcgtcct cggtttggct gcatcaccta cggctactac 180
ctgtcgtatt tctgggcgaa cgatgaacgc actcgaacag ctcttgggat caagaaggga 240
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agcgccatca agtaccaccg gaacctgacg tccagaggct accgcgccct ggtgtacagc 360
ggcgacctg acctgctggt gccacacctg ggcacccagg catgggtcag gtcctcaac 420
ttccccgtcg tcgacgactg gag 443

<210> 21131

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-D8

<400> 21131

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ccacactcaa gactgattct atccaaaatc cggcaaccaa cctacctcat actaccaacc 120
cacctaatac ccaattcatc acatctatcc aacaatcctc acctaacaca cattaaatct 180
aataattcca ccatctctct ctcaactact cacacaacta tctaccacaa tcataattcc 240
ataccacaaa cacctcaaaa tacacttact tccata 276

<210> 21132

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-E1

<400> 21132

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cgacctcggc gagcaaaagg gaaaacgctg atcggagcaa cgaagcccg cagccatgccg 120

acggcgacgg ccacggccac ggcagctcct cgccacgcgg cgctcttcct gcccctgctg 180
ctgctcctgc tcggcctcca cgccacgtcc gccgccgccg cgcgcgcggg cgtcgccgtg 240
gacgcgcgagc tcacgtccac caagccgtcc ccgggtcccga agaagcccag cgtgaagccg 300
cccggccccg gcgcgcgcgag cccgaccttc ccgggcttcg gcatccccgg gatgggcggc 360
ggcgggtggg gcggcgggcta cggcggggccc ggcggcgggt acgcccg 407

<210> 21133

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-E2

<400> 21133

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tgcagggatc ctacttcagg agggacaaca gtgtctctgc attttcagac caaacaaccg 120
aagaaatcat gaagattgtc aaggaggcaa gaaccttgcc aaaatcgctc agatcaggct 180
atggctacag tgaagaatgc tcagatgagg aggaaaagga agtggagagc gaacccaaag 240
aggaggaaga agaagctgag tgtgataaga cagttaggga ggttcgcgag agcggggagc 300
tggatatgac ctactgcac atctaaatgc tgctgtgag gctgtgacgt gtctgtagat 360
aattggcttt attgtctgct gaatttggtg gaacttatgc aattctggcg tcagatatag 420
tggtctatat 430

<210> 21134

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-043-Q1-K1-E3

<400> 21134

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gatgggggca taccaaactc atttggggga gctgaacaga cagcgaaaaa gagaaagaag 180
ccaggctcat cctctggtag agccaatagt tcaggcacag ccaatactgc tggtcctctt 240

ccaagttctg caccctcgac accttccact catacaccag gagatgcaat gtctgtgcca 300
cagctgcagc agaatggcgg ttcagctaaa cccatggtaa tgtttggctc tgatggaact 360
gggagcttga catctncagc aaacccattg gatgatgtgg accgtttgct ggaagatggc 420
tcattggatg ataatgttga aatctttcta tcacaggatg aca 463

<210> 21135

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-043-Q1-K1-E4

<400> 21135

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ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180
acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtttcct aatgccgtcc 240
gctggtacga gaccgtctct ggggtgtag cctcaagatt ccctggtaag gctgttggtg 300
taaactctgcc tgccgggatca gctcctgcgg cagctgctcc tgccggatgag gctgaagatg 360
atgatgacct tgatcttttt ggcgatgaaa ctgangagga caagaaggca gctgatgagc 420
gtg 423

<210> 21136

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-E5

<400> 21136

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ggggcaactg gtccagggga aggtggatct acgacaacgt gtcccgccca ttgtacagcg 120
ttctcaagtg ctcttcatc ttccccgagg tggcctgtga caagtatggc atgaaggatg 180
ccatgtacca gcactggaga tggcagcctc atggtcatgg atgcgacctc ccaagatttg 240

atgccatcaa tctgcttgaa aatctgagaa acatgagaat ggtgtttgtg ggcgactcag 300
tcaacaggaa ccaatgggtc tctctcgtgt gcatggcgga ggcctcaata cctgacgaca 360
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catcgataga tttctact 438

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<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-E6
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tatgagtgtc ttcattgatta aagcatgtgc ccggcattgg ttagtgagg tttgggctaa 180
taatcatggt ctcgctgcta gcgggccacc actagttctc ttgttaatgc tcatttattt 240
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attgtttgtc atgaatttgg tttgtttggt caaagtgggt acgtggagca taggtttgag 360
gtataaatga tgtgaagaat atgaattata ggcagggtgt gatttgatta aaaatactct 420
atctgctaag tcataaaat 439

<210> 21138
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-E8
<400> 21138

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa gggcgccctt ttaaggtac caagcttaac ttccccgtct ttcaaaagta 300

ataccttttt aaaggggacc caaaattaaa ttcaactgcc cttgttttaa aaacttctta 360
ccgggaaaac ccttgctttt cccaaattaa atccctttg 399

<210> 21139
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-D3

<400> 21139

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caaccctctc ggggatgagc gcatcctccg agaagccatc aaggagccag tagcattcat 240
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gataagtcgg acagtggagg cttctggaat agctgaggaa aacagctctg aagaatcaag 360
tgaggcagat caaatgatg cacctcagca aattgagatt gagtgaggtg cattgtctac 420
ttt 423

<210> 21140
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-043-Q1-K1-B7

<400> 21140

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catttccagc cccgtcccca caccagctcg cgtaacctcc tccccatggc tggaggcggc 180
ggcgcaggcg caggctcgtc gtccggcggc ggcggagggg cggcaggag ggcgactggg 240
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<210> 21141
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-B8

<400> 21141

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 cctaggtagg cttcccacaa tcaatcgggtg gccacatac tacaccaat caaatcatcc 120
 acctactcca tttccatccc cttcccacaa ctaactctcg taacctccta ccca 174

<210> 21142
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-C1

<400> 21142

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 cgggtggatac atccgaagat gggtagctca tcggcgctact atctgtgacc cgggctgtaa 180
 ggcactggga catgaatctg gccctagagc tcttagtagg acattatcgc acagccagag 240
 atccactgga ccaccctgac ggaagactac gagatgctca tcat 284

<210> 21143
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-C2

<400> 21143

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 agctataatg gaaaagattt cttgtactca ggcattcttg gtcagcctct tgaggcatatc 180
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gctcgagcta gtggaccgcg ggtgttactg acgaggcaac caactgaggg gcgaagccgt 300
gatggaggct tgcgtcttgg tgagatggaa cgtgattgtc taattgcata tggcgcgagc 360
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<210> 21144
<211> 287
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-C3
<400> 21144

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atatctactc taatcaatca taatctcaac tataatccca aaatatctcc attaatacaa 180
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aaaccacact ttcacaaata taaatccatt ctccatacta ctatcac 287

<210> 21145
<211> 339
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-C5
<400> 21145

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agaaccctgg aatcaaatat ggttggttgc ggggggtggg cagttgaagc tgcgctgtca 180
gtttatctgg agaaccctgc aacaaccctg ggttctcggg aacaattggc aattgctgaa 240
tttgctgagt ctttggttaat cataccaaag gtactatctg ttaatgctgc aaaagatgca 300
actgagcttg tagcaaagct taaggcatat catcatact 339

<210> 21146
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-043-Q1-K1-C8

<400> 21146

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cgtctcgttt ctcttttcaa taatcaagat gagccgtggt ggtagtgccg gtggtgggtca 120
aagttctctg gggtatctct ttggaagcgg tgagcccccc aaaccagcag tggcaccagc 180
tgcaagtgct ccacctgttg agaaaccatc tgctgcaaag actgatgcgg ccaagcaggt 240
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caacttcctt acggaccgtc cttcaaccaa ggtccacgct gtccttgccg gtggctcttc 360
cctgggctac ctgttcgggtg gcaactgatg cccgtgctgg tgcgctcacc aaagttatcc 420
tnccctgcct gctgcgtgct at 442

<210> 21147
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-B6

<400> 21147

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ctgagggtcc acttcaagaa cacaagggag acagcctttg cgcttcgcaa gttgtctttg 180
accaaggcta agcgatacct tgaggatgtt attgtcaca agcaggcaat tcccttccgg 240
agatactgtg ggggtgttgg tcgcaccgcg caagctaagt cgcgcctcct caatgggcag 300
ggccgctggc ccgttaaate agccagggtc atcctggatt tgctgaagaa tgctgagagt 360
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caagcccaga agc 433

<210> 21148
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-A3

<400> 21148

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cgagtggacc gccaaagcagc actccggcga gatcgaggct tccgccgcta ccccatacga 180
gctgcagcgc cgctctgtcg ctgccgcctc cgcggccgac tctgcctacg gcgtccagtc 240
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tggtgggtgca atgatggtga gcggaggtgg cggcggcggt gctgctgcat ctggtgggtgc 360
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<210> 21149

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-A4

<400> 21149

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catggcatttt cttgagagtg aacacatgac agccatccca tgccgcttta cgctgcaccc 120
gtgcaaagtt ggccatctgg ctggtgcaag ctctagtggg aagggtgttc tctggaccag 180
agcttgaagc aggctgatca tcgactgact gggatgtcct cggcctgttg ctggccctgt 240
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gcattatcct gctttttaatg tataagggct agtttgagaa ctctatTTTT tcaagggatt 360
tctgtTTTTT taatagaaaa tgaactaatt tctattggaa aaataaaaaa atcccttaaa 420
aaaatgaggt ggctaaacta gccctaatag tttgcact 458

<210> 21150

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-A5

<400> 21150

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ggcattgtga gatatgcaat aggaagccag ggcgaggttt tgggtgggtat aattgtcttt 120

taaatatatc ctagtagata ttttatgttt ccatgcgatt atgcattatt actattcgat 180

gtcatcttac cttttataga aacaacggtt gaggtcttgc cacggttgtg ccaaatacaa 240

tatgccagtg gtacactcga ggagcttctg tatgttgata tgccgagaga gtcccagaat 300

tcatctggac agattgtttt ggactatacc aaagcaatcc aggagagtgt ctttgagcaa 360

ctgcgtgtag tccgtgaagg gcatctaaga attgtattca accaagactt gaagattgca 420

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<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-A6

<400> 21151

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gctgctgagg aggaggacga tgatgatgtt gacctttttg gtgaggagac cgaagatgag 180

aagaaggctg ctgaagagcg tgctgcagct gccaaaggctt ctggcaagaa gaaagaatct 240

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cttgaggaag ctgttaggag tgtccagatg gaagggtgc tctggggcgc atccaagctt 360

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<210> 21152

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-A7

<400> 21152

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gcgggggaggt gcgggagagc ctccgccgac aggggtggcg taaggatggc tccatgcatc 180
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gtcggtaca agtgcgga ttacacgctg ccctagctga tgaagacgtc gtcaacgaga 420
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<210> 21153
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-A8
<400> 21153

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caaagcagta cgtggcgacg cgcccggtct acccgccgga gctcttcgac ttcattcgct 180
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tccgtgcatt atctttataa agtaaaggct ggctgggtga actttcattc aacttgcagc 360
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cgacgcgcc 429

<210> 21154
<211> 462
<212> DNA
<213> Zea mays
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 agttgtagtt gcaaacatgc tttagaattc ttttgtacag atgagtttgt aatgagcaag 420
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<210> 21155
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-043-Q1-K1-B2
 <400> 21155

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 agcgacgctg agcggctgtt cttcttcgag atggcctgca agaactccga ggtcgcgtac 180
 gagcagaacc ccaacgacgc cgacaacctg acgcggtggg gcggcgcgct gctggagctg 240
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 gaagaggcac ttcaaattga tccaacaag tccgatgcac tctggtgctt gggaaatgct 360
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<210> 21156
 <211> 421
 <212> DNA
 <213> Zea mays
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gtcgctgagt ttcctaattgc cgcccgtgg tacgagaccg tctctgcggc tgtagcctca 240
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<210> 21157
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-B4
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atacggtggc 370

<210> 21158
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-043-Q1-K1-B5
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<210> 21159
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-043-Q1-K1-A2
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<210> 21160
 <211> 145
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-G3
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 catcatcgac cgcaaggcca tgttc 145

<210> 21161
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 21161

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-G6

<400> 21162

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<213> Zea mays

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gatgcagaag ctgcgcgccg tgctggtgga ccacgccctc agcagcgcg acgcggagcg 360
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<210> 21164
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tcgttgaaga aactgagac ccaagtagac aataaggtac tgaccatgaa cctcctagac 180
gagctctcca gcgcccgtt catcaataag gagctgatca tcaccatcta ccgcgatgac 240
gtgttcacgt actctgaaga cgcgctcagc gccaacctgt ccctgataca gaagatgctc 300
gccgagctcg tggaccactc cctcatcagc gacaacacgg agcgctagcc cttcgtgttc 360
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<210> 21165
<211> 262
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-042-Q1-K1-H1
<400> 21165

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ccgtcaacta cgtcagcaac aaggtcctga tcatgaaccc cctgctcgac cgtctcacgc 180
tccgcctgac cctcaacgac ctcatgcgt acctgctcgg ccacagcctg ctcacctact 240
ctgatgacgc acacagcaac ag 262

<210> 21166
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-042-Q1-K1-H2

 <400> 21166

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ccggcgactt cgccagcaac atggccgtca tcctggccgc cctgctggcc gcgctcgcgc 180
tcggcctggc gctcaacgcc gccgtgcgct acctgctccg ccgcagccgc cgcgcgggct 240
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agccctctgt ggaggtggag ctgcagcgc cgtcgcccgc cctgctggtg tactccgccg 360
tcgggacgac gctggcgggc gccgcggcgg agtgcgccat ctgcctcgcc gagttcccag 420
acggggacgc cgtgcgcgtc atgc 444
  
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<210> 21167
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-042-Q1-K1-H3

 <400> 21167

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gtggtggtgg cggcggttac ggcgggtggc accgtggcgg cggctacggc aactgcgacg 180
ggaactggag gaactgagcg gtggggcccc cgcggccaag ttatcctgtt cgctaccgtg 240
ttgtttacc tagtccagag tgtttatctt cgttcgtctc gtgtttgttg ttgccatct 300
gtgtttttga ttgaaggctg ctctgtgtca gttgttagtg ctgtgttcat cctcggctcc 360
agcagacca tgcatacaacc agcatggact gcggatcgat ggggtgctgtt acccccgctc 420
ggctttattc taagtta 437
  
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<210> 21168
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-042-Q1-K1-H4

<400> 21168

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tgcaaaactaa tatggcacca ataacaatag gaagcattga aacacctaac caattaaaac 180
aagatttttac aaacacaaca aacatcacac caatgagcaa cacacttggt catacaccaa 240
agtttgtatc tccttcaagt tcatcaacat cccctctgga taatccacat gtggcagcac 300
aagatactgt tacctcagtg gtgagcatgc tcaaggacac acttgagcgc aagaagcttg 360
gtagccatgc taacaaagac acctnagcaa gcaattcttt tggattctat gacactcagc 420
agtttcaaca aaacattc 438

```

<210> 21169
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-H5

<400> 21169

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tttactacag attcaacaac atatccttgc tcagagagcc gttgatgctg attactggtt 180
tcttcctcct gtttgtggcc tgtattgttt acatgcgtac tgatatgtca atatccaaga 240
gctctccttg ctacttggcc aagctgcaat gggatgaggt gcaagcaact gttcagaaaa 300
tccagggtat ctttgagcaa tgcttagcag ttcatgataa actggaggcc tcattgcggg 360
atttgtctag gacaggtgac attcagtctt tcaag 395

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<210> 21170
 <211> 251
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-H7

<400> 21170

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acgcccgaagc tgctgatgga cttctctctc ctctcaacc acctgcgcaa ggctctgctc 180

cttggtgctc catcctctcg tacgcctccg acgcctactc cgacactgac tctcactaca 240

ctggtcatcc t 251

<210> 21171

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-H8

<400> 21171

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ttcacgtcac ttattcttat gactataagg cgttcgtcac aactaaagaa gaagtatgct 120

gcgatgcaaa ctaatatggc accaataaca atacgaaaca ttgaaacacc taaccaatta 180

aaacaagatt ttacaaacac aacaaacatc acaccaatga gcaacacaac ttttcataca 240

cccaaatttg gatcttcttc aaattcatca acataccctc tggataaatc acatagtgc 300

acacaagata ctgttaccac aaaggatgaac atgctcaaag acaca 345

<210> 21172

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-A1

<400> 21172

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agtcaagggg gaatgcgttg tttggtggtt tcttctcttt gcacagttgg ttgctttaat 120

aaaagctgta cagttcgggg cttcccttgc ttaaactacta ttatgtttat gaattatgat 180

ataactcttg cttattccct tggctgacat ctttttgtaa ttgctgcagt gggataactgc 240
 tgggcaagat cgcttcagga caatcactag cagctactac cgcgagctc atggaatcat 300
 tgtaagttgg ccacctgaac tagcaacttc tgaaatttgt caaccatatt gatcatatta 360
 cattattggc tcattgctgg ctttcagatt gtatatgacg tgacagaccc agaaagcttc 420
 aataatgtga agc 433

<210> 21173
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-G1
 <400> 21173

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 tgcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
 ggctcgcct gggccacgga cgaccactcc ctccacaacg cttcagcac ctacggcgag 180
 gtcctcgagt ccaagatcat ctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
 gtcaccttct ccacggagga ggcgatcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgccg tggaggcggc 360
 ggcgcgccg ggtacggtgg tggccgtgga 390

<210> 21174
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-D8
 <400> 21174

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 gaatagagcc atttgtaaca atttttcatt gggacgtccc tcaagcactg gaagacaagt 180
 acggtggctt tttaggcgac aggattgtaa aggattacac agacttcgct aaggtgtgct 240
 ttgagaactt cggtgacaag gtgaagaatt gggtgacctt taacgagcca cagacattta 300

caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
 gtgctcagcc tattgctaac tcactcaccg aaccatacat tgctggccac aacatccttc 420
 gagcccacgc tatgactgtt gacctctaca acaagaatta caag 464

<210> 21175
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-E1
 <400> 21175

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 atatgctcgg cacgttcac cccagctgt aaccctacac gtactttact cctgaatata 180
 ccaccccgtc atcaatgttt gcccggggag tcctactctg ccaggaccaa ggtacttact 240
 tacttggatc cataaccagt cctttttcag ttcaaacata atccgaatcc ttcaggctca 300

<210> 21176
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-E2
 <400> 21176

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 ggtgcctcaa ccccatgctc gtgaagcgtt tcacggagtt ccctccgagg agcagtcttg 120
 accctagcat gtacgtctac aacaccacca ccacatgca cgcggaccta gagaacaagc 180
 tcgatgacct gacggtgcat caggcgtgt acggaaacct gctatacatc ctgtaccaca 240
 actacaactt catgccgac ctgttcaggg tgaacatcct gtaggacaac tttatatact 300
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<210> 21177
 <211> 495
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-042-Q1-K1-E3

<400> 21177

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gtgccggcca tctctcggcc accagaacac cacagctcac ggtctgctgg ttgtcatgtc 180
atgtcacgcg gtgcagttga cagagccaag gagatgctcg gcacgttcag cccccagctg 240
gagccctaca cgtacgtgac gccggaggac accaccccgt cggaatgtt tgccccgggg 300
tcctactctg ccaggaccaa ggtacgtacg tacgtggatg cagaaccagt cctttttcgg 360
ttcagacaga atccgaatcc ttcaggctcg atagttcacg aggtttggtt tggcatcctg 420
ttctttggca gttcctcgac gacgaccgca agtgctacct gnagatcaac tacaccttcg 480
acatccgccc ggagt 495

<210> 21178
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-E4

<400> 21178

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actgtccggt ggtgcaccgg acagtgtccg gtggtgcacc ggacagtgtc cgggtgcgcca 180
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gtcggccgcg cgatctgcgc gggacacgtg gccgagccaa cggtcggaag ggggcaccgg 360
actgtccggt gtgcaccgga catgtccggt gcgccaacgg ctcccggatc tgcaacggtc 420
gaccgcgcca attaaggaaa ggaatcgggc accggacac 459

<210> 21179
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-E5

<400> 21179

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cactcggcca ccagaacacc acagctcacg gtctgctggt tgtcatgtca tgtcacgcgg 180
tgcagttgac agagccaagg agatgctcgg cacgttcagc cccagctgg agccctacac 240
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caggaccaag gtacgtacgt acgtggatgc agaaccagtc ctttttcggt tcagacagaa 360
tccgaatcct tcaggctcga tagttcacga ggtttggttt ggcacccctgt tctttggcag 420
ttcctcgacg acgaccgcaa gtgctacctg gagatcaact acaccttcga catccgccgg 480
gagt 484

<210> 21180

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-E6

<400> 21180

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cgtaaggagg aggtggaggc tgatgctggg gagaggaaga cccaggagcc gtcgcagcaa 180
ggccaggggc tcagcctctc actcgccaac ggcagtggca gcttacaatt ttctatggcg 240
gatcagtatg tgtgtatgac tcagtgccac cggaaggc tcaagcaatc atgcttatag 300
ctgcagctgc agcggcagcg gcagctacca aaagcagtgc tgcccctact gttaagcctc 360
caatgggtgcc tgcagccact gttgccccag cagctgtcgt ttctcctgtg cttacacggc 420
ctccatcact gcagagcact tctgtagcaa ctgggc 456

<210> 21181

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-E8

<400> 21181

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ttttctatcc gttgcttcac agatcgtgtt aattgttagg ttcattgcta gaataaccct 180
aattgggtcaa aacatgcaca cggccctttt ccgatctgag atgtcgctt ctcagcattg 240
tgttatttta agcatattgc actttgtcct atgtctaaaa a 281

<210> 21182

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-F1

<400> 21182

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attcggttcta atcacacctt tcattacctt aatctatagc catatgttgc ccaactaaat 180
acactaccac ctaatctcta cattcaaact taccttctct acactaatca gacgttttac 240
tcacccctaa 250

<210> 21183

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-F2

<400> 21183

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tgtatcggtt gctttggaga ttgtgttaat tgtaggttc atgcttagaa taaccgtaat 180
tgcccaaac atgcacccgg cctgttccg ctctgcgatg tgccttcgca gcattgtgtt 240
attttttagca tattgcagtt tgtcggaggt taaaatacat caatatggca ttcatttttg 300

aagtcgacaa ctgctacagc tacacattc

329

<210> 21184

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-F3

<400> 21184

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agcactccat actaaccgat tatcataaaa gctacttcgt gcgaaactga tcattacgtg 180
gttataaggc ttacaatttc ccgaccaata ctagtgccac ccaatctctc taagtgaagt 240
caccatggct tatggagcaa aattttttctc cattcttaac cgcagaactg ttcacacagc 300
attacttctc cggatcagtc tggatgaacgt acacaaatga ccctaaagta caaaaagggt 360
cacacgggtc cacgccataa ttagctgcct ggcttggtat gcgccctttg taaatatgtg 420
taagctttat gttcctcggc ccccccccc cact 454

<210> 21185

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-042-Q1-K1-F4

<400> 21185

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cccgcaggcc ggattgtcat ggggcttttt gggaagactg ttcctaagac ggcagagAAC 300
ttccgagctc tttgcacagg agagaaaggg gttggcaaga gtggcaaagc cctccactac 360
aagggaagta agttccacag aatcatcccc agcttcatgc tccaaggagg tgacttcact 420

ctcggngacg gtaggggtgg tgaatctatc tacggcttga agtttgcgga tg 472

<210> 21186

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-F5

<400> 21186

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tagcagaaaag ggtagtttgt gtgaacctgg tcattaggtg gttctatggt ttccggttgc 180
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tggtgaacgt agacaagtga ccctaaagta caaaaaggta cacacggtca cacgccataa 360
ttagctgcct ggcttggttt gcgccctttg taaatatgtg taagcttttg ttcccttcgc 420
cccccccccc ccc 433

<210> 21187

<211> 476

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-042-Q1-K1-F6

<400> 21187

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gatctgtctg gtcacagatc tatctgacaa aatggtgaag atctgctgca tcggtgctgg 180
ctatgtcggg ggcccaacca tggccgtcat tgccctcaag tgcccagaca ttgaggtcgt 240
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tgatgttgag aagcacgtcg ctgaggctga cattatcttt gtctcgggtga acaccctcac 420
caagaccggt gggcttgag ctggcaaggc tgccgacctn acctactggg agagcg 476

<210> 21188
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-F7

<400> 21188

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 cacaactact tcatcaccta ctccgacgtc ctcgagtgc aaatcatcct taatcgtgag 240
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 gccattcatt gcatgaacca caatgatcaa cacagacgca tcatcatcgt ccacaaagcc 360
 caacacaccg tcagacgcca taactacctc cctggctagt actgcgcct tcgtaa 416

<210> 21189
 <211> 478
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-F8

<400> 21189

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 gagctctata tggctcctctg catggcggcg caaacgaggc agtacttaaa atgttaaagt 180
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 ggaaattggc agatgaggtg ttctcaattg ttggacggga tccacttatt gaggtggcca 360
 ttgccctaga aaaggcagcg ctgtcagacg aatattttat caagaggaag ctgtatccaa 420
 atgtggattt ctactctggg ctaatttata gggcaatggg attccctaca gaattttt 478

<210> 21190
 <211> 103

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-D7
 <400> 21190
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 tagtgcttat ggatatgggg agatcaaata atggccttgc aat 103

<210> 21191
 <211> 227
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-B5
 <400> 21191
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 agctgtacta gatcatagtg tgcaggcatg catttttacg ggctattggg aggatggttg 120
 aacaatcaaa tcattctttg atgcaaactt tgcctcact gagcagtgtc tcaagtttga 180
 ttttatgata caaaaccact ttctttaatt gaaccgaat cctggct 227

<210> 21192
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-042-Q1-K1-B6
 <400> 21192
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 atccacagcg cgtcgagtgc gccgtgcccc gggcaggagc cctccaggat cgtcgccgcg 180
 ccaccgggcc acacgggtcca caccaacggc aacgggaaga cgttctctcg gctcggcggc 240
 agggctctacc aacgctcgcc cgagtgcgcc tggcggttcc tctgccacce tttcttccac 300
 agcatgcacc accatcacgt aggagtccac acgctgtgg gtatcccga cctgcccgtt 360
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<210> 21193
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-B7

<400> 21193

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ccatggtaga ggaattgctc aagaactacg agaacgtatg cacccttcgt gtgaggatgc 180
ctatctcatc ggatctctcc aatcctggca acttcatcac caaaatcacc cggtagata 240
aggtcgtcaa catcccgaat tc 262

<210> 21194
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-B8

<400> 21194

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agaggtactt agtgatctga aggccaaaat ctgtgctcat gacccatcag attctgaaga 180
tattgaggga ggcacccgta attctctctt gtggctgcgt gatgaattac gaactcttcc 240
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aaagtgcttt ttccgagtcc gggattacaa gacagtaaaa tctccaccag ttcatatcag 360
tccgcttgac ttaggcccc aatatgccga taaactggga ccaggctttc aggagtactg 420
caagacatac ccagaaaatt actgcttagc ccagcttatc tattg 465

<210> 21195
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-C2

<400> 21195

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gccggcacac ctcaccatct gctcctagcc cgcaacgtgg cggcgtgcgc cgacagatgc 180
tgcggtgcgc gcggtgcgga actacgacta catcccgaag cgggaaccct ttagctccag 240
ccgcagcatg ctccactagt tctcaggca agacaagccc ctcatacagc gcaccaatga 300
ccagatcaca gattattgca cggtcacga aggcgatgag tgct 344

<210> 21196

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 21196

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gctttcgaaa atgtgcagct atgtcagaac atggacgtca ggaactccgg accaatgagt 240
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gtttcaaggg attggtagct ttcttagctg agcagccgag gcaactgaag cacctggagt 360
ggccgggctt tctacacacg ctgaagacgg tcacacttac tcttgattgg taggtatgtt 420
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<210> 21197

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-C4

<400> 21197

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 cagctgggtc ctcgacggcg gtagctcggc ctcgggggcg tacaccgggt acaactgccc 240
 gctcatcgac gcggagtcca actgccagct ctacggccgc ccggactccg actacctccg 300
 gtacctctgg aagccggccg gatgcgagct accgaggttc gatggcgcgg acttcctgac 360
 gcggatgaag gggaagacgg tgatgttcgt gggcgactcg ctggggcgca accagtggga 420
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<210> 21198

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-C6

<400> 21198

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 tccagcccct tgtgtgtgac aatggcactg gaatggtcaa ggcgggtttc gctggtgacg 180
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 tgacactgaa gtaccaatt gagcacggca ttgtcggcaa ctgggatgac atggagaaga 360
 tctggcacca caccttctac aatgagcttc gtgtggcacc tgaggagcac cctatact 418

<210> 21199

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-C7

<400> 21199

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 ctgcacagct ggtgcaagag ggttaaggac aggagccgac acaaccgct cttctcgcgg 180

aacgggaccc tcacgaccag atccgtgtgc tccctagaca ccacctacga gacggatcac 240
gagacgaaca cgggtgtgcac gctgtcgagg acggcgtcgg caacgtcgct ggacgaccag 300
ttgaccgtgg tcacc 315

<210> 21200
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-042-Q1-K1-C8
<400> 21200

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caagcccaag cccggcgctc gcggcagcct caagaagtaa gcttgctggc ttggttggct 360
cgcccgctg catggggcac aattcccttc ggtttcaatc ccatccgtcg acccgatcta 420
taatcaatc 429

<210> 21201
<211> 352
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-042-Q1-K1-D2
<400> 21201

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ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
gacggccgca acatcaccgt caacgaggct ccagtcccgc ggccggccgtg ga 352

<210> 21202
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-042-Q1-K1-D3

 <400> 21202

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gaagaatagg aagttcactg agactgttga gcttcagatt agtctgaaga attatgatcc  180
acaaaaggac aagcgtttca gtggctctgt taagttgcct cacatccctc gtccaaagat  240
gaagggtgtg atgcttggtg atgcccagca cgttgaggag gctgagaaga tgggacttga  300
ctacatggat gttgaagccc tcaagaaaat gaacaagaac aagaagcttg ttaagaagct  360
tgccaagaag taccatgctt ttttggcatc agagaccatc atcaagcaaa tccccgtct  420
tcttggtcct ggtctcaaca aggcangcaa gttccccact ctggtcac               468
  
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<210> 21203
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-042-Q1-K1-D4

 <400> 21203

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attcatcaca actgtccaac agcgtggtgc tgcaatcatt aaagcgagaa agttctccag  180
tgctctctcg gctgctagct ctgcttgtga ccacattcgt gattgggttc ttggaacacc  240
tgagggtaca tttgtttcca tgggtgtgta ctctgatggt tcatacggtg ttccttctgg  300
actcatttat tcattcccag taacatgcag tgggtgtgaa tggaaaatcg ttcaaggccc  360
tccgattgat gagttctcaa ggaagaagat ggatgccact gcccaagagc tgacggagga  420
gaagacgctt gcttactcat gcctcgagta aattctacca caccagaga g               471
  
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<210> 21204
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-042-Q1-K1-D5

 <400> 21204

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 tatagttcat catgccaaga acaataagaa attcactgac actgttttagc tttaaattag 180
 tctgaataat tatgatccac attaggacat acgcttcagc cactctatca agttgcctaa 240
 cattcct 247

<210> 21205
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-042-Q1-K1-D6

 <400> 21205

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 agcaaacagc ttactccact catgccctga agtctggcag tatttcctcc cttgcataga 180
 tcttggttga acatattctt cgtcagcatt tttgtgcaaa catggagcac cggttgggtg 240
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<210> 21206
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-042-Q1-K1-B3

<400> 21206

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cggcggcgct gctggcttcg tccgcttcgg cggcgatcac ctgcgggcag gtggggtcgt 180

cgctggcggc gtgcattccg tacgcgacgg tgagggccag cgcgctcccc gcgtcgtgct 240

gcagcggcgt caagagcctc aacagcgcgg cgcggaaccag cgcggaccgc caggcggcgt 300

gccgctgcct caagagcctc gccaacagcg tcaagagcgt caacatgggc accgtcgcca 360

ccatccccgg caagtgcggc gtctccgtcg gattccccat cagcatgtcc accgactgca 420

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<210> 21207

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H4

<400> 21207

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acagaacgtt tcgacatgag caggccggag cagctagcta atagaggag atgaggggggt 180

aagtgttctc tgacggacgt tctggcgcat gttcctttga cggacgggtg acaggtttgt 240

aaaacacgac tcgacactca tgatccttat catgttgact ggcttgggct tggcttgcat 300

ctccagctct tcgcaccaca gatctacgat tattctctgc actgctggct agcctgacct 360

gacctgacct gacagctact gtgcaatcat gtctatgatg tctgagcgct aatctatgcc 420

gggcaatcct atgtac 436

<210> 21208

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H5

<400> 21208

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aaaaggacat gagaatcaca tgtccaaatg caaatctaaa aaggaaacaa tggcagaaga 180
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agccagaaac acagaaggcc aacaagcagt acaagccgtt gacgcaccag atggcccttc 300
caaatggct aatggaaatg ataagaatca tgattctcat atcgaagtga cccccatga 360
gttgggtttg aagagatcga gaacaaatgg agctacagcg gaaatccatg atgagcgaaa 420
tattctgaaa agatcagatc agtcagc 447

<210> 21209
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H6

<400> 21209

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ccatatctgc tacttcagaa gctttccttc acctactctc tgcttcaaga attcaaagta 180
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<210> 21210
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H7

<400> 21210

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tcgtcgtgtc gtggcgcaga aggtggtgct gaagctggac ctgcacgaca acagggacat 180
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gcggaacccc cagcgcgtg cgcaggcatc gactccatcg cggaggacat gaaggagtcc 420
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<210> 21211
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-041-Q1-K1-H8

<400> 21211

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acaaagtata acccatctgc ggcacctaataaatctgccag caatctccat gcaagagact 180
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g 421

<210> 21212
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H9

<400> 21212

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ctccactaca tcccgtagca tccgcatggc catggactct actgccagcg caagccgaca 180
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 aaaggcgctt cgatctcttc agccagattt agtgcttttt acaggcgatt atggaaatga 300
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 caatcat 367

<210> 21213
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-042-Q1-K1-A1
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<210> 21214
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 21214

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<210> 21215
<211> 177
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-042-Q1-K1-A3
<400> 21215

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caatgatttt cgtgttatta ttttaaaaca aacggaccga cgctggcaac gcaccca 177

<210> 21216
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-042-Q1-K1-A4
<400> 21216

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<210> 21217
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-A5

<400> 21217

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<210> 21218

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-A6

<400> 21218

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tcgcgcagat cttcggctgc cctgtcttca cagtccagag acctgattcg gcacgcctgg 360
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<210> 21219

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-A8

<400> 21219

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 ttaaattgta tcaaaattgt ttgcggaagt tcttcacaa tacagatgca accatcctat 360
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<210> 21220
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-042-Q1-K1-B1

<400> 21220

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 ggtcagtcag atcattttct tgtttgttgc tgtctgatta ttcttaccba atgggttaatc 180
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<210> 21221
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<223> Clone ID: LIB3062-042-Q1-K1-B2

<400> 21221

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 acatcattcc cccaacttta tctgatcgca gattgttggg tttgaagcag cctgttgggg 180
 tagttggagc tattacacca tggaattttc cattagcaat gataaccgag aaggttggac 240
 cagctttggc ctgtggctgt actgttgttg tcaagccatc ggagttcaca cctctgacag 300

cattagctgc agcagatctt gctcttcaag cggaataacc agcgggtgca ttgaatagtg 360
 tgatgggtaa tgctgctgaa ataggtgatg cgttgctgca ggtacacag gtcagaaaga 420
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<210> 21222
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 <212> DNA
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 <223> Clone ID: LIB3062-041-Q1-K1-H3
 <400> 21222

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 gtcgggctca tcggcggcct gctggagcag ctccgcgtgt cggagctcat gaagtaccgc 120
 gagacgcggg agccgctgga gcagctcgag gacgcgctcc gccggggcta cctgctcgtc 180
 aactcctgcc aggaccgctc ctacctctac ctctcgcga tgggctggaa catcgtctac 240
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 ctgctcgaca atgcccgcac tcgggatcgg cttgagtata ttgagaggga ccaatgtgaa 360
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 acgaatccta ca 432

<210> 21223
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-041-Q1-K1-F9
 <400> 21223

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 gagaaggaga gtgctacatt cacctgacag aagcagcacc tggaagaatt atctgacgca 180
 aaggaaacat ttattggagg tcttgaggca gaggccaaat ccaacagcac acaggattct 240
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 aatgctaata ccattccgtg tcttgctact tcaaatcata caactgaacc cagctacgta 360

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<210> 21224
<211> 53
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-041-Q1-K1-G1

<400> 21224

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G10

<400> 21225

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tagaatttca agattacaat ggatctatga aaagatcgtg tatttacaac tacaacggaa 180
tagtatacaa agtcaacacc aatgattaaa tagaatttat ggctacacaa accgttgaag 240
atagttctag acctaagcca aaacggactg ggcgaggtag tttattgaaa cccttgaatt 300
cggaatatgg gaaagttgct ccgggttggg ggactactcc ttttatgggg gtcgcaatgg 360
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acggaatttt aacgaattag gtttctacta ac 452

<210> 21226
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G11

<400> 21226

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 aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180
 gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240
 aagcacaagc agcacctcgg cgaggccggc gccatcgccg cgggcgcctt cgcactctac 300
 gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360
 gtcgctgccg cggcgccgt cggcgccggc ggctacgtat tccacgagca ccacgagaag 420
 aagaaggacc acaagga 437

<210> 21227

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G12

<400> 21227

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 cgacgactcg gcgccaaagc gccacaccaa gccctcccgc agcgagcact ccgccgtgta 180
 cgtcgacgcg ctcgctcccg acgtcggcgg caactcccac ccggagctgg acaagttcca 240
 agagctggaa gcacacaccg agaggttggg gtacgagggc gccaatgtgg gagatgagtt 300
 cgtggagacg gagtactaca aggacctcgg cggcgctcggc gagcagcacc acacgaccgg 360
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<210> 21228

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G3

<400> 21228

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atcagttgct tcatactact gggcgctgg tgaaatatca catgatatac catttctcac 180
 tgtagtctct tcaactgaagc gactgatgcg ctacagcctt ggatctgttg ctctgggttc 240
 acttgttgta tctgttggtg aatgggtgcg gtttatacta gaatgccttc gtcgcaagtt 300
 gaagctagtt gattctgccc gagagagctg ctttggaaaa gcgacgtcct cctcttctga 360
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 gattgccatc accgggaaag gtttcttc 448

<210> 21229
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G4

<400> 21229

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 caaggcgacg tcctcgggtg caccttgctt cgggtacgct atgggcatct cggcgtctca 180
 ctccgcggag tgctgcacca cagtgcgctc gctcaacatc cgcgcgtagt cggcggctga 240
 ccggcaggcc acctgcaact gactcaagag catgactggc cgtctcggca gcctcgtcaa 300
 catggccaac gccagcaaca tccccggcaa gtgctgcttc tccgtcgact tgcccatcag 360
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<210> 21230
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G5

<400> 21230

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 aaaatgctat tcaccttgag gaaaaagaga agaaggagaa ggagctgagg agccaaatca 180
 tcgttgatgc tgaagagttt aagaaagctt ttgttgagaa gagaaagctc aatgctgaga 240

caagcaaggg ccaaaaccgt gacagggaga agcttttccct agcaaaccag gaaaagttcc 300
atgctggtgc ggataagcaa tactggaagg cgatatctga acttatccca catgagattg 360
ctaacatcga gaagagaggg gcaaggaaag acaaggagaa gaagcctggg atcgtggtga 420
ttcaggga 428

<210> 21231
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G6

<400> 21231

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atgttttaag agtcagcatg tgggcatctc gcattaggat caccattcac aaagcaggag 120
caccttaagg agtaaggacc accattttat ctggaccttt ccctctgacc gctttcttct 180
cctgataatt aaaaacgcca taaggaatcc ccagctgggt ttctgagtct gggacaagga 240
tgggctctat ttcaaccccc atccttgctg atatttccat gacaatttca tggttccaac 300
atgatcttta ggtgtttcta gcatgtttcc ttgccgcatg gttttagtct gcatagcggc 360
atggcatgca tgaagtagcg ttctgtctct agggatccct aaaggcttgt aagaggagac 420
gggttttatg c 431

<210> 21232
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G7

<400> 21232

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ggcagctcta ctctgtgctc ccggccgccg cgcgccgccg cggcctgcgg cgcgaggagg 120
tcgccgcgct cgccgtccgg gcctcgcccg cgctctctc ccgggcctcc gcatccgcat 180
ccgcctccgc cgcgccggga cggcggagac gcggcgccgt cgcgccctc gtcttcgcgc 240
cgccgcgaga ggacgaggag cgcgagcagc acaagacgac ggccttggcg gcgccaccgg 300

tgccggcgcc cgcgcgcccc ggcaggcgcc tcgtgcgctt cgcgtcggac ctcaccgga 360
 tccccgagtg agtagggggg tcgggctcag acggacggga acgaattcgc tgccattgaa 420
 ttggctctgg 430

<210> 21233
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-G9

<400> 21233

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 cgtttaagct ggcattgtgc tcgctcgtgt ggggccctct ccatatggag gttgtcaaag 120
 tatctgctgt tcgtgtcatg agtcgtgtca gcgttagttt aataatggac cggctgtgtt 180
 gtgtgtgcat actaccata actattacaa atcatgaatc agtttgttgt ttgaaaaaaaa 240
 ttaatacat 249

<210> 21234
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H1

<400> 21234

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 cgggaacgtg tccatgatcc ttgtgcagga cgatgacgtc caggttgagc agatgatgaa 180
 ggacctcaag ttcagcgaga aggggatggt ctatgtgaag ggcattcttg agacatgact 240
 gggagtttga tactctatct gtgagtgaac aatcgagtgg agacgagtct ttgctgcaac 300
 ggaaactgcg taagcgtaac ccaggtgagg aaatgcaa atggacgggca aatctctacc 360
 ttggcttaaa ggaaaaaaga agtgatcttc atactggatt tgattattgt aagtgttgcc 420
 cgtatgagga tagttaatgt atgaactcaa actaatgact t 461

<210> 21235

<211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-041-Q1-K1-H10

 <400> 21235

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 ccgataccaa tctctgatct aggtcttaat gaaacagctg accctgtgtg tgaaagtgac 180
 gtttgcgaga ttcttttcga cacttacact aagtcttacg atatcatctc atctgcatct 240
 gcaagaatat tgccagtgat gatgtgttca gaggatggga tccttgcagg cgtcgaacat 300
 gataagagac cccttgaatt gcttgctgaa tcttgtgcca tcaactcctt cgacatagat 360
 cctcataacc cctc 374

<210> 21236
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-041-Q1-K1-H11

 <400> 21236

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 aggaaacaaa tacatagtct gtccagacct caaaatttga gttggaatct tggaattgac 180
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 aaaaaaggaa atgtattgca tttttattgc ctaaaacaaa ctttggcatt aggtcctggt 360
 tggatccttg aattgaattg tattctaaca atcataattt agacatagat caattaagtt 420
 aatatagttt tacatggaaa aa 442

<210> 21237
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H12

<400> 21237

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gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggac gcaacatcac cgtcaacgag gccagtcctc gctgctgccg tggaggcggc 360
ggctg 365

<210> 21238

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-H2

<400> 21238

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ctgctactcc agaagctttc ctccacctcc tctctgcttc aagagttcaa ggtagctggc 180
gctgcacgct cctagcagcg agcttcgagc catggagccc aggaagtcga attatctcgt 240
cgccctcgtc ttggcgctgt tcttgctctc cgccgctcga ggagggcata ggaagaagct 300
cgatgacgca tcagaatcaa tggagacatt ggaatccatg caggaagacg acgaaatggc 360
ggttggtggc cacaagagaa ttctcagcca ggtgaagatg aacgactacg cgagata 417

<210> 21239

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-041-Q1-K1-F8

<400> 21239

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tcggccagtc gtcaaggtac cattaccagc atcagagcaa gcagcccag ctgcanggag 240
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gcggtgacgc cgaggcaggg ctgatctaca gcgaggacta cagcagcgtg gccatgcatg 360
ctgcctctcc 370

<210> 21240
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-041-Q1-K1-E5
<400> 21240

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tctcagccaa ctctgtctgc gacacgctcg tcgtggccta ctctaattctg tctgcctct 180
tgtgcaacaa cctccacacc gaccagctct actactactc ctggatcttg ctcaccatca 240
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tcgctagcga gctctaccg atgc 324

<210> 21241
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-041-Q1-K1-E6
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tgtctggtga ctccattact aaggatgaca ttaaggctct cgcgcggtg ccgtcgaagc 180
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aaga 424

<210> 21242
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E7

<400> 21242

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gagtagga 428

<210> 21243
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E8

<400> 21243

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cgaggctggg cgtgttaaatt tcgtgtctgt gccatgaggt cacctgcgta tcaccagaag 420
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<210> 21244
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E9

<400> 21244

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<210> 21245
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F1

<400> 21245

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<210> 21246
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F10

<400> 21246

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accagagtac tcgcatcaga ccagtctctt acgtgactta tttatccgct aggggtacca 180
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 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F11

<400> 21247

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ggaggaggac cctattgtcc acaggcatat ttcttctctg tatgatacac tgctggagca 360
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gatt 424
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<210> 21248
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<223> Clone ID: LIB3062-041-Q1-K1-F12

<400> 21248

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gtacatactc tagtgtaaaa taatggctaa ccaaactgac tatgttacag gaataatctc 180
acctatagct gtccataaat atctgggtcc taataatcat gctatgaacg ctgattctta 240
tacatactct aatagatctc tcaagtattt tgaaactgcc ctctgtgatt ataagtccca 300
tctgtacgat gaccatattg tgcacagaca tatttcatct ctatatgata cacttctata 360
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<210> 21249

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F2

<400> 21249

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gatgtcgttt ggttctgctt gccgtcttgt ccgtcgccga ggcccttctc ccctcgctcc 120
ccagctccag caggcagatc agatccatcc aaccacgaac aggaaggtga gcgccgggaa 180
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cttccatcca ccaggagagc tcgtggcttg tctttgatta gctcgggtctc ccctgtgtcc 360
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<210> 21250

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F3

<400> 21250

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ggtcaacttc gacctgccgc acgtcatctc cgaggcgccg acgttccccg gcggtgcgcca 180

cgtggggcggg gacatgttcg cgttcgtgcc cgacggcgac gccatcctca tgaagtggat 240

cctccacgac tggagcgact cgcactgcgc cacgtgctc aagaactgct acgacgcgct 300

gccggaaaat ggcaaggtca tcgtcgtcga gtgcgtgctg ccggtcaaca cggaggccac 360

ccccaaaggcg catggcgtct tccacgtcga catgatcatg ctgcgcgaca accccagcgg 420

caaggagcgg taccag 436

<210> 21251

<211> 420

<212> DNA

<213> Zea mays

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<400> 21251

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tgcgtcgata tctcgcttag tctatatcgc caccttctac atctgtccca ttttacttta 300

caccttacac gatcctctaa tccttccatc caccatgata gctcgtagct tctctctgat 360

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<210> 21252

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F5

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tggttaataag cgagagagag agagaggcca atggcagcca agtgggtggct cgtcgccctcc 120
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 ggcgcaggcc cgttcggcgg gttcggatgc ggcggcggcc tcgggtggcg aggatgagga 420
 ggaggagga 429

<210> 21253
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F6

<400> 21253

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 cgacatgcac aacaaggatga ccctggagtg gctgctggcg ctgggcgaca agctgggcat 360
 ggtgcgcgtc ccgggcatcg gcctcgtcta caccgacctc acctccggcg tgcccgcaca 420
 cttc 424

<210> 21254
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-F7

<400> 21254

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caacccgcag ctggcgcgcg tcctggacca gctcaacgcg cgctttggcg cggggacctt 180
catcgcgggc aacgcgttcc gcg 203

<210> 21255
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E4

<400> 21255

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gcaggagggtg agcagggcg gggcgggccaa cccgggctc gccgtcggcc tgctccgcct 180
ccacttccac gactgtttcg ttgggggctg cgacgcgtcc gtgctcatcg actccaccaa 240
gggcaacacc gctgagaagg acgccgggcc caaccttaac cttcggggct tcgaagtcct 300
cgatcggatc aaaggcccc gtcaagcagg cctgcttcgg cgtcgtctcc tgcgcgga 360
tactcggtt cgcgccagg gacagcgtcg cactcgccg cggaacgcg taccatgtgc 420
cggcggtgcg gcgg 434

<210> 21256
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C8

<400> 21256

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tctccaagct ggacggcgct gatagggtg aaacctggc gcagatcgcc aatggctgcg 180
aggagtgggg attcttccag ctctgaacc acggcatctc gctggagctg ctcgagcgcg 240
tcaagaaggt gtgctccgac tgctaccgcc tccgggaggc cgggttcaag gcgtcggagc 300
cgggtgcgac gctggaggcg ctctcgact cggagcggct cggtgagggt gtggcgccgg 360
tggacgacct ggactgggag gacatcttct acatccacga cggatgccag tggccgtccg 420

acccgcc

427

<210> 21257
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C9

<400> 21257

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gttgatgcca ttgtgaaggc cagtgaattg cctttgtcca ttgtgttagt aggagttggt 180
gatggcccct gggacatgat gaaggaattt gatgacaaca ttccttctcg agcttttgac 240
aatttccaat ttgtaaattt ttcggagata atgtccaaga acatggcaca atcaaggaaa 300
gaggctgcat ttgctctttc agcattgatg gagataccac aacagtataa agcaaccgtg 360
gaattaggaa ttttaggtcg tcgctcttcc aagtctacca acagagttcc tctacctccg 420
ccttccgcaa gtcattgatgc t 441

<210> 21258
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D1

<400> 21258

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cggcttatgt ttgcctcacc aagcggacat ggggatgaac aacatgtcaa cacagctaca 180
ccaagtgaac accgaagcca aaccgatgaa gattcaacaa gtgccattga tcaaggcgcc 240
agggcacgac cacctttaca ccgttctgt gtgttggtcc gaattggccc tgtagaacc 300
attgggctct gctctaataa gtgagaggta taattgcctc attaccacag aacgcaaccc 360
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<210> 21259
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 21259

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ctccgcaagg ccaccaccgc ccgcccgtc gtcataca aagacgcgga cggcggcagc 180
tacaagcggg cgcagtcgat gccgtcgacc ccgacgacgc cggtagacgc gtcgtcgtcg 240
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cccaccgtct acgactggct ctacagcgac gagaccagga gcaaccaccg ctagatcggg 420
cgagatggat ggacagtga ga 442

<210> 21260
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D12

<400> 21260

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caggaacacc gtgtttttcg atattaactt gagaggtctt gatggcatcc aaggaccagt 180
ttatgtgggc actggctgtg ttttcaacag aacagctcta tatggttatg agcccccaat 240
taagcaaaag aaaggtggtt tcttgcac actatgtggt ggcaggaaga agggaagcaa 300
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cagta 365

<210> 21261
<211> 444
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D2

<400> 21261

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acagggggcgc cggggaagcc gtgtcggggg taggctacag ggagtaccgt ctcggggact 420
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<210> 21262

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D5

<400> 21262

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tcgcaaagtg gacttctggt tgtaattctt agtcgtctct ctctcttttt gggttggtca 180
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<210> 21263

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D6

<400> 21263

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tttttgttaa gaagagaaca aatatgtatc aattgttgaa tcggatacaa caatgggcca 180
 aaaaggccaa aggggcaata agaactgctg ttaaaaaaat gataaacttt ttttttatct 240
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 tattggctga tcttatgatg agaactttct ccatttatgt tttatttccc ctaattctaa 360
 ttgggtgggg tataaaggaa ttgcgctct tcatataccc ctatggctgg atagtaattt 420
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<210> 21264
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D7

<400> 21264

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 gctcaagtac ccgattgagc acggtattgt aagcaactgg gatgacatgg agaaaatctg 420
 gcatcacact ttc 433

<210> 21265
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D9

<400> 21265

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 atccttgatc caaatccaat tacggtatac aatatcaca aagctgatcg aaataaaata 180

ctacccaaaa caatgtatca attttggaga gtctaaaact tactactata cttactagca 240
cataacaaaa catatatgta tatgtaggaa agattctttt atggaagtat agaccacatg 300
catatatcta aatgaaacta 320

<210> 21266
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E1

<400> 21266

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aacatgcgca acacgatcaa ggacgagaag attgcgtcca agctgccggc cgatgacaag 180
aagaagatcg aggactccat cgacgcggcc atcagctggc tggacgcaa ccagctcgcc 240
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gccaaagatgt accagggcgc gggatgaagac atgggctgcg ctggcggcat ggacgaggac 360
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tgtcagtctt g 431

<210> 21267
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 21267

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377

<210> 21268
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E11

<400> 21268

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actcacagtc tatgaccccg tcaccgtcga gtacattacg cgctacatc 409

<210> 21269
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-E12

<400> 21269

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<210> 21270
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-041-Q1-K1-E3
 <400> 21270
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<210> 21271
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-041-Q1-K1-C7
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<210> 21272
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B2

<400> 21272

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<210> 21273

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B3

<400> 21273

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ccac 364

<210> 21274

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B4

<400> 21274

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cgatggcgta ccgggaggac gacgactacg actacctctt caaggtggtg ctcatcggcg 180
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agtccaagtc caccatcggc gtcgagttcg ccacccgcag catccacgtc gaggacaagg 300
tcgtcaaggc ccagatctgg gacaccgtcg gccaggaaag ataccgcgct atcacgagcg 360
cgtactaccg cggagcggta ggggcgctgg tcgtgtacga cgtcacgcg caggtcacct 420
tcgagaacgt gg 432

<210> 21275
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B6

<400> 21275

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caggccgacg ccgggtacgg ttactgcggc ggggtacaccg cgactccgac gcctgccacc 180
ccgaccccca agccccagaa gccccacacc aacggggcca agccggacaa gccgaccaag 240
gagcacatgc cgcccaagga gcacggtccc aagccggaga agccgtccaa ggagcacaag 300
ccgacgccgt ccacgtacac cccgagcccc aaaccgactc cgacgacgga cactcacacc 360
cggactcctt ccaagccgac tccaccgaca tacactgccg cgcctacgcc gaacaaacgc 420
acaccaaaac cc 432

<210> 21276
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B7

<400> 21276

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gggatgctcc tagtgaactt gctctcttcc tagctagggc agtgattgat gaagtattaa 120
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 ctgtccagat ggcgcgtgct ctactgtcag ctcgccattc tggtgagcgg atactgcggt 240
 gctggggcgg tggcaactgga tgggctgtgg aagatactaa ggacaagatc actaagctat 300
 tggaggaata caacactggg ggtgacctag gagaagcctg cagatgcac cgtgatcttg 360
 ggatgccctt cttcaaccat gaggtggtaa agaaggcact ggcatggcg atggagaagc 420
 agaatggca 429

<210> 21277
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B9

<400> 21277

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 ggcgagcggg cagagcgcgg ccatcggtga cgccatcggc aagggcgtgg agcagctcat 120
 cagcctgggc gccatgtacg tgggtggtccc gggcgtgctg cccgtggggg gcttcccgat 180
 ctacctgacg ctgtaccaga cctccagcgc cggcgactac gaccagtacg gctgcctgaa 240
 gcgcttcaac gcgctgtcgg cgcagcacia ctcgctgctg caagccaagg tgtcgagcct 300
 gcagagcaag taccgccggc cgcggtcat gtacgccgac ttctacagcc acgtgtacga 360
 catggtgaag agccccggca gctacgggtt cagcaccaac ctcagggcct gctgctgcgc 420
 cggcggcggc aagtacaact ac 442

<210> 21278
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C1

<400> 21278

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gcaggccgag gactgtttct tcgtgtacag aatggtggtg gttctgttca ggcgagagct 180
cacctttgag caaaccgtgt gcctgtggga ggttatgtgg gctgaccagg cagccatacg 240
agccgggatc gggaggtcca cctggggaag gataaggctg cgtgctccgc caactgacga 300
cctgttgctc tacgccatcg ccgcctgcgt cctgcagagg aggaagctga taattgagaa 360
gtatagcagc atggacgaga tactgcgaga gtgcaatagc atggccgggc agctagacgt 420
ctggaggctg ct 432

<210> 21279
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C10

<400> 21279

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ggctcgtggt ctgctctttc aagtcgaagt aacggtggtt cgagctagtg gatagtgtgg 120
ctcaactgta gaagttcctt ttgtatagca agcaagtaaa aaaaaaatg accaaaaaat 180
ataacaaaat gcagctgtaa gtttactgct gctctctaag tcgtgttcag tcatccagtg 240
tgtctagtct agggaaaccc cataaaaatg gtgaagggtg aatcccatcc cagtgtcata 300
attaaggatg cacttcttct gtaagcaaat gtatgatgta caatggccgg cccgcagtct 360
aaatgttaca actagctctt cttggtgg 388

<210> 21280
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C11

<400> 21280

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gagctcctcc tcaattgcaa cccggtgcac aagaaagtgc ccgtgctcat ccacgccggc 120
aagccggtcg ccgagtcgca gtccatcggt cagtacctcg acgaggcttt ccccgccggc 180
acgtgcccgt cggtcctccc agccgacccc tacgcacgcg ccaccgtccg cttctggggc 240

gtcttcgtcg acgacaaggt cgggtctcca tggcacacgg tctgttcgc gcgaggagcac 300
 gggaagaatg ctgacggggc gtcgcggtac gtcgcgggcg tggagacgtc tggaggcgcg 360
 ttcaagactg ctccggcggg aaggactact tcggcgggcg cgccatcggc 410

<210> 21281
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C12

<400> 21281

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 cactactttc tcgcacggaa ctcaagagca taacaagaaa cgaattctaa cgatcctcag 180
 gatataatac tgcattctga tgtatgtgcg ttaggtcaag agtgaattgc ctagcacgtt 240
 caaggcatac cggtttcagc agcacagggtg gtcttgtgga ccggcaaacc tgttcaagaa 300
 aatgatggta gagatttttag aaaacaagaa agtgtcattg tggagcaaaa tctacttatg 360
 gtacaatttc ttcttcgttg ggaaggctgc tggccaaacg gtgacattca tctactactg 420
 ctgtgcatc cccgtgtct 439

<210> 21282
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C4

<400> 21282

cgccaataat ggagtttccg caccaccacc accaccacgg ccatcgccgc gacgactacg 60
 gggacgaccg cagaggcccg gctcccccg tctacggcg ctacggccag ccaccgccac 120
 ccgaccgta cggccgcgcg cccgtcgacc ccgatccgta cggtcgacct ccgccccagt 180
 ccgcgtacgg tggggccggg gacgcctacg gccacagcgg ccaaggctac gcgccccgcg 240
 cggcctacgg cgccgggggc gggtagggca acgtcgtcca cgtcgcgcac gaggtcggcg 300
 acgagaggcc ttactacggc ggcggcggcg gcggtcttgg tggcgccctac ggaggcggtg 360

gctccgagta cggccacgag ggccgaccgc accacggcgg cggcggatcc cagtacggcc 420
acgagacacg cc 432

<210> 21283
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-C5

<400> 21283

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gtggtcttga tgattggcca acacacattg tttacattgc tcatgggaaa ctgcaattag 120
cactgccttt ggaaaaggtg aaagaaatga gtcagttatc tctcatgagg actgtggaga 180
gctggttgag gaaagaaaga gactaggaca ggaggaggag aaaggagcga aaggagaaag 240
gcctcccaga attcgacaag gttgtcgagg gtagtcgggt tatagggtgat ccagcaaaga 300
acgcagacag agttataaac aacgggtggg cagctggacg gcttacctcg acgattgcag 360
gagaggaaaa tttcgtcttc agctctaaca gcgtacttag gcaatgatct agttttgttt 420
tcctttatct at 432

<210> 21284
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-041-Q1-K1-C6

<400> 21284

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ccgcgcagcc ggcgcgggcg tacaaggtga cgatggagca cggcggcgag tcgcgggtgg 120
tggaagtggc ggaggacgag acgatcctgt cccgcgcgct ggacgagggc ctggacgtgc 180
cgcacgactg caagctcggc gtgtgcatga cgtgcccgcc gcggctggtc tccgggacgg 240
tggaccagag cgacggcatg ctcagcgacg acgtcgtcgc gcgggggtac gcgctgctct 300
gcgccgcgta cccgcgctcc gactgcacca tccgcgtcat ccccgaggac gagctgctca 360

aggtccagct cgccaccgtc gacgactgac tgacgctccg ncgatgacca tcggaccggc 420
cagcaggcat caaccttcgg cgggtgttaa 448

<210> 21285
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-040-Q1-K1-H8

<400> 21285

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ggcgggtctga gcccaccacc agcgtcgccg ccaaccgctg gggggccctac tccggcgccg 120
gcgacttcgc cagcaacatg gccgtcatcc tgggcgcgct gctggccgcg ctgcgcgctc 180
gccttgcgct caacgccgnc gtgcgctacc tgctccgncg cagccgccgc gccggctctg 240
ttggtggaca gggcaacggc agcggcgctg tgatgccgtc ggacgacccc gctgagaagc 300
cctctgtgga ggtggagctg caggcg 326

<210> 21286
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A1

<400> 21286

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aaaggtcagc agacagaggt ttaactgaca atgcaatttc aaaagatcaa atggaagctc 120
ttgttgagaa gataagtaag ttaaatacgc tgtcaggcga gtcaaattgtg caaaagggaac 180
aggctacaag tccgcttgac aaactttttg ttgtcattga tgaattcagt gcacttcaac 240
atgaggttga gaccttaaga tatgaaaatg aagatttaca gttacatatt gaatcctata 300
ctcgtgaaat tgaacagcta agagaggtct ccagaaatag tgatataact aataggaggt 360
tggaatccaa aggaagtgag cttcttgagg tagccgtag tatggagcga atgattcagc 420
ggtaggata tctt 434

<210> 21287
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A10

<400> 21287

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gaactaggaa ataactaaaa attatttggga cagagacatc acaaatggat ctgatcacia 180
atcacaaatg tgacaagctt gctaaggatg aactgctaaa gaagttgtat gactactatg 240
ccgcgggcac atgacatcaa ttgactcaag gagaaaagag aggcgtcatc caaaattctg 300
agtttgttcg ctctattaga gcccataggc ggtactgggc gaggagctat gctggatgga 360
taaggtttag gagagcacia ccaaattgag ccattacga tcttccctt ctgtctgcgc 420
gccttcactt tcatctggca 440

<210> 21288
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A11

<400> 21288

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gtgtgattcc tcttgcttg gccgtccccg tccccctttt cggtcgcga gctcgcccga 120
gatggcaaac gcgagatcgg gtgtcgctgt gaatgaccag cgcattgctca agttcggcga 180
gctgcagacg aagagggtgc accgcttcct aactttcacg atggacgaca agttcctgga 240
gatcgttgac gaccaggatc gggatcgcg taccagctac gaggacttca caaacagcct 300
ccacgacaat gactgccgat acgcatcta tgacttcgac tttgtcactg cagacgatgt 360
ccagaagagc acgatcttct atatcctatg gtccccatac tccgtcaagg tgaacagcac 420
gatgctgtat gcaagctc 438

<210> 21289
<211> 231

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-041-Q1-K1-A12

 <400> 21289

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 ctatgtaagt tattattaaa aggtgggccc tccccatccc ctatttcttc tctctaactc 120
 aactaaatt ccaaactcta catcacatgt ctctataaat cactaacaca tactctattt 180
 cctctatcta catactaata ttctacacca cttactaact ttcactatac a 231

<210> 21290
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-041-Q1-K1-A2

 <400> 21290

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 tccggtgggc cctactcttt atgcccattt taccacagac aatctctcat gcttggatcat 120
 ggagtactgt ccaggcgggtg atttgcatgt tcttcgcca aggcaacctg gaaaaagctt 180
 tccagagcca gcagcaaggc tttatgttgc agaagttctc cttgctttgg aatatcttca 240
 catgttaggg gtcataatcc gtgatctaaa gccggagaac attttagtcc gtgaagatgg 300
 gcatataatg ttatcggact tcgaccttcc actgaggtgc tcagtgaatc ctgtgtctct 360
 tcggtcatct tctgttactg cgaaccacca accgaggaaa catacaggac cttgtgcaga 420
 gaactactgc ataaa 435

<210> 21291
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-041-Q1-K1-A3

 <400> 21291

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 gatggcgccc tcgacggcgt cctcgccgcy tacaccagct tctccatcca ctccgtgggc 120

ggcgccggac aactggagggc caaagtgcgc gacgaggccg atgccgtcgc gtactggacg 180
gccgtcgcgc ccaacgtgga ggcgtacgga agcgcagtgg ccatgaccat cgccacgggc 240
gccgagcacc tcgccaaagg gatactgtgg tgcagggagg tcacgtagag agcctacgct 300
gggggaatga ggtcctcaaa aagaggatgc aagccgtcga cgccaacgtc gaggtcagcc 360
ccaatatgct caagcgaatc aaaagggcta agacggtgag ccaaatatct gagaa 415

<210> 21292
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A4

<400> 21292

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agctcagtac aaattgctcc tagattctta tggaagaatg tcatcagtct attgtttcat 180
gggtgtgcac ccatctgact caaataatat tgttgtatgg tgtgcacccc ttgacttca 240
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caccgaatgt tctaattatc tatatcggtc ctttgtacag ctcttgggtg agcttgccac 360
tctcaccaat caagttttca tgtctgatct cgacattcag atcccaac 408

<210> 21293
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A6

<400> 21293

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ctggaagaac ggaagatgcc accaaggcag tcgaaagatg aaatgccgtc acctccttct 180
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gagaaggcta agattcaggc ggacaatatt gggcacaaac ttttatctaa gatgggttgg 360
 agggaaggcg aggggtcttgg gagcgagaga agaggccgtg cagatcccgt tatggctgga 420
 gatgtgaaga ag 432

<210> 21294
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A7

<400> 21294

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 tggacaactg ctccacaacg gctcgcttgg gatccaggaa gtgggcgcct cgcttcgact 180
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 tcatcagcaa cttcttgtcg gaccctgtcc atggtgccat tgaggtctgc gccgagctga 300
 ggcccaccgt cgacatctct gtgcctgcc aacgcgactt tgtgcgccc gagctccggc 360
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 gtgtcccag ttagaacaga gtgtctg 446

<210> 21295
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A8

<400> 21295

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 aggaggaaag gtgataatcg ttgatatggt tgttgagggc cagtcgtcaa acattaagca 180
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 cgttctaggt gttcgatcca tcatcgaggt ctacccatga ttatttggcg aatacgtgtt 360

tcgttttttt ctgaataagt tgtttgggta actagcatgg gacgagtgtc catgagatca 420
tgtgtgatga a 431

<210> 21296
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A9

<400> 21296

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cccattacca gatatttgcac tggcgctaac acctgaagaa tatgatcttc ctccactaga 360
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ctggcaaaaa tattggctct ggag 444

<210> 21297
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B1

<400> 21297

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gaactaccta aaggaaaagt accataatcc aatcatcatc atatcggaac acggaatgga 180
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cttcgcgtgg tctctcctgg acaacttcga gtggctgtcg ggctacacgt ccaagttcgg 360
catcgtctac gtgcacttcg cgacgctgaa gcggtacccc aaggactcgg cgtactgggtt 420

cagagacatg ctttcggg

438

<210> 21298

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B10

<400> 21298

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ctcggacccg gagggcaccg ggggcttcat cgagcccaag tggctggcct acggcgaggt 360
gatcaacggc cgctacgcca tgctgggcgc ggtgggcgcc atcgccccgg agatcttcgg 420
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<210> 21299

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B11

<400> 21299

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ggtggcggcg gcgctggtgc tcgggatggc gtcggcgcac gggccggccg ccgcgccccg 180
gccgggcccc gcgcccggga tcagcgacga gtgcttcaac gcggtgctca acatgtctga 240
ctgactgacg tacgtgacgg cgggcatcaa ggcgcgtcac ccggacacgg cctg 294

<210> 21300

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-F4

<400> 21300

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gagaacggct aaaaggacat accgctgatac ttctaagag ggtcaatata ctggtataga 120
cgtggcgact tctggctagc atgggtcctg ccggacgcag cgttcatatt cccagtggtc 180
cgcaagtata cgagctgggt gaaacagagc gtacttgagg ccttacaaca gctgacatag 240
gcagggatg 249

<210> 21301

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-F5

<400> 21301

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<210> 21302

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-F7

<400> 21302

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gcactctgtg gatcggggac ctccagtact ggaccgacga gaactacctc tacagctgct 120
tcgctcacac cggggaggta caatctgtta aaataatacg caacaaagta acaagccttc 180
ctgaggggta tgggtttata gagtttggtt cacatgaagc tgctgagaaa attctccaga 240
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tcagctctgg tgagaggcgc cctgatccag gatctgatca ttgatcttc gtaggggacc 360
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<210> 21303
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-F8

<400> 21303

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ggctacactt tcgggcagga catatcagag cagtttaatc acacaaacaa tctcaaactc 180
gtagctcggg ctcatcaatt agttatggag ggatataact gggctcatga gcaaaagggt 240
gtcaccatat tcagtgtctc aaattactgc tatcgatgcg gcaatatggc atccattttg 300
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gagccagatg tgacgcgaag aacaccg 387
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<210> 21304
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-G1

<400> 21304

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gtcggcggac tcgcctgggc cacagacgac cactccctcc acaacgcctt cagcacctac 180
ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga cgcacaggtc ccgcggcttc 240
ggcttcgtca ccttcttcac ggaggacgcg atgccgaacg ccatcgaggg catgaacggc 300
aaggagctgg acggccgcaa catcaccgtc aacgaggccc agtcccgcgg cggacgtgga 360
ggccgcggcg gcggcgggta cgggtgtggc cgtggacgca gcggctacag cagtggcagg 420
cgccgagatg gccgcagcag ctacagcggg ggccggcggc acagtgggtg c 471
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<210> 21305
 <211> 465

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-040-Q1-K1-G3

 <400> 21305

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 ctccgtcgcg gttccaggcg caggccgatg ccgtaacct catctgcggc gccaaagacc 180
 agtcgaaccc ggagaacacg gtaggcgtga tgacaatggc cgggaagggt gttcgcgtgc 240
 ttgtcactcc caccagcgac ctcggaaga ttctcgctg tatgcacggg ttagaagttg 300
 gcgctgaggc aaacttggct gcggaatcc aggttgcca gcttgctcta aagcatcgcc 360
 agaacaagag gcagcagcag aggattatag ctttcattgg aagtcctgtg aagtacgaca 420
 agaaaagttt ggagaccatt gngaagaagc tgaaaaagaa caatg 465

<210> 21306
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-G4

 <400> 21306

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 gtcgccaac ccgagcgctt tgtccggcag ctaggtagcg agctgctcgg tggctgcgac 180
 cggaagcacg gagggcgaca ggacaccaa cgccagtcga ttgccttgct tgctgtgtg 240
 ctccgcccgg cagcagttgg tcggtcgtgc catgcatgga tgacaaggaa cttatcttac 300
 agtctgacct gcactcattc taccatcagc atcagcagca ccaccg 346

<210> 21307
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-G5

<400> 21307

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agagaagggt catctgatcc tgcagtagct gtgaagaaac ttctgcatga ggacccatat 180

acagctggag aaatagagaa aattacagga gaaggcctga catctgtctt ccagggctct 240

cagacgtcat tggaagttat aaaagcggca aagcactaca agctatttca gcgtgcgacc 300

catgtctact ctgaagcaag gagagtttat gctttcaggg atactgtctc ttcaaaactc 360

agtgaggaag gcaagcttaa gaaacttggt gatcttatga acgagagcca ttacagctgc 420

agcgtgctat acgaatgcag ttgccctgag ctggaagagc ttg 463

<210> 21308

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-G8

<400> 21308

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ggctttctcc gtaggatctc ttgctaggag tagcctgccc cgtgtgcgcg ctgcgacgga 120

catgcttggt tccgcgtctt gaaaggcgag aaaaagtgga gatgggcgct tgcgcttcgg 180

tacacaagga cccggggcac cccaagaagc agttttctga ctctcccacc aaggcgaaag 240

ccgccaacgg gaaaggtggc gggggcggcc gtgttgctcc ggttggtgat ggcttcgggtg 300

atc 303

<210> 21309

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-H2

<400> 21309

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atatgttggc gatctctgcg agggatgcaa ccatgttaga tgaatgcaaa caagagatct 120

agctaatagcc tgcacggatc aacaatgtaa aacgcaagct ctactacaga ttgtctctca 180
agctcaagaa cacaagaac tgggtctacca ttctaagcca tatcttact ttctcataca 240
cgcgaaatgaa caaaacgcat agtgacaaca tgacggataa atggcttatt tacatgacca 300
atgatggact gaaattgtag ctgactgtt actgtctaaa tgtgattatc tag 353

<210> 21310
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-H4

<400> 21310

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tggtggtagc agctctgctc ctctcatct gcacctgcac taccaggggg caagcggcaa 180
ggccggatcc aggatccgag ggccacacgc cacagcagct gcgcgctgct gtatccgtct 240
ccgttgctgc tggtaatgag aaggagagt gctcatcagt ggccgtggtg gaaatgcgtc 300
ggcagcaaga gccggaggcg gtgagtgaat gtgaagacga cgactgagac gacgaacaag 360
cggagtgcct gatgaggagg acgttgctcg ctacacccga ctacatctaa caccagggga 420
agcacaacta gctagtcact gctcactagc ctgtgctgct ggctcatgct catgtca 477

<210> 21311
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-H5

<400> 21311

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ccaccacaag aaggacgagg agcagcccg cggcgagtac gggactccg agaccgaggt 180
ggtcaccgcc accggcgagg gcgagtacga gaggtacaag aaggaggaca aggagcacia 240
gcacaagcag cacctcggcg aggccggcg catcgccgac ggcgccttcg cactctacga 300

gaagcacgag gcgaagaagg accccgagca cgcgcacagg cacaagatca cggatgaggt 360
 cgctggcgcg gcggacgtcg ggcgcggcgg ctacgtaatc cacgagcacc acgaggagaa 420
 gga 423

<210> 21312
 <211> 482
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-040-Q1-K1-H6

<400> 21312

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 atgttgtttc aagatcaatg acaatgggga ttagagaagg acgtggtgta gggccattga 120
 aggatcacat ttatttgcac ctgaaccatc tgccacctga ggttctcaag gaaaggcttc 180
 ctggtatttc tgaaactgct gctatttttg ctggtgttga tgtcaccaag gagcccattc 240
 cagttttgcc tactgtgcac tacaatatgg gcggtattcc aacaaactac catggngagg 300
 tagtggaat caagggatg aatccatatg ctgttggtcc tggctaatg gctgctggtg 360
 aagcagcctg tgcacatggt catggtgcga atatgctagg cgcaaattcg cttcttgaca 420
 taattgtttt tggcaaagct tgtgcaaaca gggtagcata tatttctaaa ccaggtgaga 480
 ag 482

<210> 21313
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-F3

<400> 21313

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 actgcccagg tcgtcgaggc ctggttccgg tcggacgcag cgtcccaggc gggggtggac 180
 agctgggatc ccaccaaggt aaaggagggc gtcgtcaatg gcggcggcgg ctggcatggc 240
 cagggatggc ttggcaaggg cgcattggag gttggctgga ccgagatggg caaggatggg 300

acatgccaac gctgtgggga gaggcttgtc tgcattgaca ttgatccaac cgagactgac 360
aactttgcaa a 371

<210> 21314
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-C6

<400> 21314

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tcgagatcag taaaaacggt tggaggtcca gtgcaccaac aactgtatca tccaattttc 120
tgactagtac agaggtgaaa atggctggcg gagctgctgg agaggataga gtccaagctg 180
tgtgctcaga gaaaaatgga tggctgattt gtgggatata tgatggggtt aatgggaggg 240
atgcagctga ttttcttgca gtaactctat atgataacat agtgtattac ttgtacctgc 300
tggagaatcg gataaagcaa caaatgggtc tatacaattc atcagaaagc tctctcgatg 360
gtcttaaaag tgagttaaca ctagccatga gaaactcaga aaatgaagac ataaaatttt 420
ctgaaacatt tcgatctggc gtgctgaatt gcctttctac tgctgttgag caagccgaga 480
atg 483

<210> 21315
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-C7

<400> 21315

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catttttagag ctctatcttc gctaacatag gatccgtgtc aaggatcaat gctgcagggg 120
tctgatcatt caatctgatt accagtacag tgcagaaact gttttaagaa ctttatctag 180
agcatagact atctaaatct gtactaaaag atacacggat gtcacatctg cggaatataa 240
cattatcggt cttttcacgc atcactatat aatctcatag tgagtctata ctagtacata 300
acgtcttac 309

<210> 21316
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-C8

<400> 21316

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cgggatgccg ctgacggcaa tggagtaccg ttccttcttc gagaacccgg acatgaagcc 180
tgaggcacia atcatcatga agctacaaga tttggatggg tggaagtact tcggcaggaa 240
catgttctgg ctgggtgtca tcggcgggcg cctcatcctc ctgcacctcc tcacctcct 300
ctacttcaag ctgaggtaca gagacagggg gcggcgggcg catggctacg ccgcactgct 360
tctcccagg ctggagatca tggctcgtcg cctggcgatg ccgtgcgtcg cccaagcggc 420
ggcggcgctc atcaggggcg ggaccacgtg 450
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<210> 21317
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-D1

<400> 21317

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tggatgggac caaaaatgag tggggatggg gcaagcaaaa gcttgggtgct aatgcgattc 120
tggctgtgtc attagctgtt tgcaaagctg gggctagcat caagaggatt cctttatacc 180
agcacattgc caacctagct ggaacaagc agttagtgtt gcctgtccct gcattcaatg 240
tcatcaacgg tggttcccat gctggaaaca agcttgctat gcaggagttt atgatccttc 300
ctactggagc tgcctcattt aaggaggcta tgaagatggg tgttgaagtt tatcaccacc 360
tgaagtccgt tatcaaaaag aagtatgggc aagatgccac gaatgttggt g 411
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<210> 21318
 <211> 358

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-D2

 <400> 21318

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 tcctcagtct gcgactgcga taggtcttct gaaagaagct atccatgtca taagttgcgg 120
 ctaccaggac aagactgaat ggggaactga gattgggtgg atctatggtt ctgtgacgga 180
 agatattctc actgggttca agatgcacgc acgaagctgg cggtcgatct actgcatgcc 240
 taagcggccg gccttcaagg gatcggtcc catcaatctc tcagaccgtc tgaaccacgt 300
 gctccagtgg gctctcggct cagtggaaat ccttttcagc cggcattgcc cactatgg 358

<210> 21319
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-D3

 <400> 21319

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 tgccagctga gccatgtgc aacctcatca aaggccttgc agacttcgag gccgccgtct 120
 gcctctgcac ggccatcaag ggcaacgtcc tcggcgtcgt cttcgatgtc cctatcaagt 180
 tcaatgccct cgtcaactac tgtggcaagt gcgtgccccaa gggctacatg tgtgcgtaag 240
 ctccgcgcgg ttacacgtc gtagccgttc gcgtgcgtaa ttaagcatgc acctgcatgg 300
 cacacatgta ttgtgcgcct gctgatctct cctgtctcat ttgtgcacct taggttctac 360
 agtcctagaa ccatattcca ggcaaattct tgtcagttca catgtatggg etc 413

<210> 21320
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-D5

 <400> 21320

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cgtgaacaga acaaagaagc ggatcaaatt gggatcaaaa tgtatgcctg ggacgatttc 120
 ttgaaagtgg ggaaggataa tcctcgtcaa ccttgcccta cgcaagcaag tgacatctgc 180
 actgtcatgt acacgagtgg gacaagcggg cagcccaaag gtgtgatgct gacccatgaa 240
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 acaacagatg atgtcttctt gtcgtttctc ccgcttgctc acatccttga ccgcatgatc 360
 gaagagtatt tctttcacia aggggcctca attggctact accacggaga tctgaatgcc 420
 ttgagggacg acattgtgga gctgaagccg actctactgg t 461

<210> 21321
 <211> 142
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-D6

<400> 21321

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 agattcacag caaagaagcg tcgcaaacag agatcacaat gtatacctca aaccatatct 120
 acgaaaatca ttatcgataa ac 142

<210> 21322
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-040-Q1-K1-D7

<400> 21322

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 gatctacgag ctgccatggc taactcagcg gcaccgggag gaatgaggtc gttcctgcag 120
 gccgtgtcta cggtcaccga ggaggcgccg acgccactcc gcgtcgtcca gatggagggc 180
 ctggctgtac tgaagatcat caagcactgt gaggagtttg cgccagcttt agttacaggt 240
 caattgctag gctggatgtc ggtagtgttc tggaagtgac caactggttt tccgttcact 300
 atcaggggaag acgatgatga agcagatgca gatggtgcca ttatcagctn gagatgatg 359

<210> 21323
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-D8

<400> 21323

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ttatatttgg tctgggttatg gtacttactg gtggtgcatg tttgtgtgag tgcttagagt 180
ttaggctatg gccatcagat catgtatatg actatatgac tgtgtaaaac actgtttttt 240
atctgattgt gtaaaacagt gtttttgtat cgtacactat tgttttatag attgaagttt 300

<210> 21324
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-E1

<400> 21324

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acgatggacc acgataacta ttattgtcgg tttctctgat tcaattaagt ggaaccctt 120
ggtagtgatt caattaagtg agaagtgaga accctcattg tgctattttt ttgtttcagg 180
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tttttaggat ggcgttacat tcctgaaatt gtttgaatcc tttatgggat ttcttcatcc 300
ttaatcactt gcagatatcc tttagtata aaaccattag cttagagtat ggaagggttg 360
tgtccagcaa ggtttatgac ggatagtctt cgctgttatg ctgcgtactc gatgtgttgc 420
ctttcttcta ccattctttg gtacataact aacacat 457

<210> 21325
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-E2

<400> 21325

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ctacttcagt catatattga ctacctattg tgcataatcat caacaacaac gtattttaact 180

ttcatcgaag tctacttatt gtttttcgac ttaacctatt acacattaac ttcattgata 240

gttcttttta actacctgta taagatctaa tgtatgaatt actatctaata gaccctt 297

<210> 21326

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-E4

<400> 21326

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tgactggact caacgccaaa aagggggccac aaaaaggata taaaggactc acacccttaa 120

agggccccct agaaaaaaac gcatctatag acacaccata aacaaaattt ttcttttcta 180

taaacttgac atttaaaaag ttctctttgc attgtatatc ccacatgttt aaaa 234

<210> 21327

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-E5

<400> 21327

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cctcctcagt gaagctgaac ggtgttcccc tgcaaagcaa acttttcatg cgcacgactg 180

attcttttac ggtctgagga acccgtgcaa caccaacaac ctctcggggt acttactcta 240

cggctgtcaa cgaggacaag ttcccaggcg tgaacacact acgcgtatgc atggcgcgca 300

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tcttaggcac tagacagcac gctcaaggtc agcttcatca ccatcggcaa cacgcatttc 420

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457

<210> 21328

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-E6

<400> 21328

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gtcttttgtt ggttacctct tgcccatgtc atcaacaaca aggtctttgt ggttcatgga 180

gggctattta gtgttgatgg ggttaagctt tcagacatta ggtccattga tegtttttgt 240

gaaccacctg aagaaggtct aatgtgtgaa ttactatgga gtgaccctta acctcagctt 300

ggaag 305

<210> 21329

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-E7

<400> 21329

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tccgcttcgg cggcgatcac ctgcgggcag gtggggtcga cgctggcgcc gtgcatgccg 180

tacgcgacgg cgagggccag cgcgctccac gcgtcgtgct gcagcggcgt caagagcctc 240

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gctaacagcg gcaagagcgt aaacatgggc acc 333

<210> 21330

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-040-Q1-K1-C5

<400> 21330

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cgggccgcgg atccctgatg ttgagatctg ggagctgaag ctgaagatct cgcggatgcg 120

ggtgcggtg acggagctgg agcgggagca ggggctaata aagcagcagg ggaggatgcg 180

cggcgggtgac ggcggcgggc ggcagcacga ccgcgccttc cttgcgtcgc tctcgagggg 240

catcggcagc atcaccatgt tcggcgggcc cgcggcggcc gacagacggc gcaagaattg 300

tggcgcccg agtcccagt gctccgacgg cangggccgc angcggcaga aggcatacctt 360

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<211> 272

<212> DNA

<213> Zea mays

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<400> 21331

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ccggcggtgaa ccccatgctc gtcaagcgtc tcacggagtt ccctccgagg agcagtcttg 120

acccgagcaa gtacggcgac cacaccagca ccatcagggg ggcggacctc gagaacaagc 180

tcgagggcct gacggtgcag caggcgctgc acggcaaccg gctctacatc ctggaccacc 240

acgacaactt catgccgttc ctggtcaggg tg 272

<210> 21332

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-F2

<400> 21332

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ctgttcgatg gtcaccggga ggtactgcga cgcgaggctt tgcgtgccct ccgattgctg 120

cataacgttg cttgatcg 138

<210> 21333
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-A4

<400> 21333

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caggtttcttg aacaaaagga agaaaggata gcccttggga ctctatatgg gtcaagccat   180
acgtatgtgc tgggaacaca agataaatca tcagctccga aaaggggtgga tctgcttaag   240
aatcaaaagt cagacaaggt ggacgtcacc atccaacccg aggaactgga agccatggat   300
gatgtttctgg cagccaagta tgaagaagct cgagaggaag agaagcttcg gaaccaacag   360
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<210> 21334
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-A5

<400> 21334

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aaccaggcac ataacctcaa cagaaatgga gaactttatc ttcagaagtg cccaagttg   180
ggagtaagac tcgtagatgg caccagctta gctgctgcag tagttgtgaa tagtgttcct   240
caaggcacag atcaagttgt tctcgcaggg aatatttcca aagttgctcg tgctgttgcc   300
gcagcattgt gtaggaagaa tatcaaggta gtaatgacca acaagcagga ttaccatttt   360
cttaagccta acatggcaga agatgcagct gagaaccttt tggtttcaaa gacaactact   420
  
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 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-A6

<400> 21335

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tagccgtatc atctctgctc tgagcacact ctactctgat ccgagctcat cccactatta 180
tgaatgtgat tcacactttg actataacta actcgtctga cacatgcgag taatattc 238

<210> 21336

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-040-Q1-K1-A7

<400> 21336

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gcgctccgtg ttctcgtctg aatccgccat gaatggggcc aaattcaatg gcgccgtcaa 180
agccgatgcc aagctggcgg cgaaaagcaa gggggcggag aaacccgcc aagggcatgaa 240
ggggaaagcc agcaaggacc ccaacaagcc taaaagggct cccaccgctt tctttgtgtt 300
catggaggaa ttctgcatgg aagttcatgg agaagaacct taagaacaag tctgccgctg 360
ncgtgggaaa gctgctggcg acaggcggaa atccctgagc gagtcggaca aggctcccta 420
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<210> 21337

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-040-Q1-K1-A8

<400> 21337

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agtcctcga ggctcacctc gccggcaaaa cctatgtgtc tggtagactcc attactaagg 180
atgacattaa ggtcttcgcc gccgtgccgt cgaagcctgg cgctgagttt cctaagccg 240
cccgtggta cgagaccgtc tctgcggctg tagcctcaag attccctggg aaggctgttg 300
gtgtaaactc gcctgcggga tcagctcctg cggcagctgc tcctgcggat gaggtgagg 360
atgatgatga ccttgatctt tttggtgatg aaactganga ggacaagaag gcagctgatg 420
agcgtgccgn cgctgccaaag gcctcttcta aaaagaaaga aagtggtaaa tcct 474

<210> 21338
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-B1

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tgatctggtc aaggatggca tccgtcccct ctgggaggat cctgcaaacc agaattggtg 120
caagtggata attagattca aaaaggcagt ttcaggctga ttttgggagg atttggtgct 180
agtggtagta ggcgaccagc ttgagtatag cgatgatgtc tgtggtgttg tgcttagtgt 240
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gatggcattg agggattcta tcaagaggca cctcaagctg ccgcacagct atctgatgga 360
gtacaaaccc catgatgctt cgcggcgtga caac 394

<210> 21339
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-B2

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aggaccgta cagcgtcaa caacctgctg tgcaagtctg agctctccgg cattcctgct 180
gcaccccgta gtgtgccaca tatcatcgtg tgcttatata tcgacgccta cggcatactg 240

aacg

244

<210> 21340
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-B3

<400> 21340

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ggtcgcaact ggataattac attcaciaaac tcactttcag gtcgattctg gcaagattcg 180
gtcctactaa tagtacgcga ccagcttgag tatagcgatg atctc 225

<210> 21341
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-B4

<400> 21341

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tcctccttct gcgatggaga gtcagcacta gaatgtttgg acagtgtatc ttggcttttg 180
caggttatgc agttttctcg gaataatttg tgacgttgat tagttcagca tgaacgttgg 240
gtcagtttaa gagtgtgtgt tctacttcca tctaattggag gcaatttcat gtcaaaaaaa 300
aaaaccggaa cgcattagac catatagctg tgatggcatt gagggattct atcaaaagag 360
ccctcaagct gaca 374

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<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 21342

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ggcgaagaag cacacggcga aggagatcgc cggaagatc gacgcggcga cgacgaaccg 120

gggcggcggc aaggccgggc tggcggaccg gctggggcag gacaaggcg ggcatgcgaa 180

gctggcgtgc ccgtctgtcc gcaccccggc gcccgacatc aagtccatgc agatccacca 240

cgaggcgcgc caccccaagc tcccccttca gccggagaag ctctcaacc tgcactcctc 300

ncgccccgct gctgctgttg cgcgcgacgn cgcgcgcgnc gncgctgccg aggccaccac 360

ctncaagccc aagcccgcg tccgcggcag cctcaagaag t 401

<210> 21343

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-B6

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gtggcgagcg cgcagcggcg tccgtgctac ctgctggact acgtgtgcta caaggctacg 180

gacgaccgta agctgccgac ggacctgtgc tgcgagatca tacagcggaa catgctgctg 240

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acgtacggtc cgcgcaacat gatcgaggtc tgggaggccc ggccggaccg gctgcgctgg 360

ccatggaaga gatggacgag accttccacg ctttcc 396

<210> 21344

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-B8

<400> 21344

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cggcaaccct acagtcgagg tcgacgtggt ttgctcagat ggaacctttg caagggcagc 180
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 tgactatttg gggaaggggtg tctccaaggc tgtgaacaat gtgaattctg ttattggacc 300
 tgctctgatt ggcaaggacc ctacagcaca gactgagatt gataaacttca tggttcaaca 360
 acttgatggg accaaaaatg agtgggggatg gtgcaagcaa aagcttggtg ctaatgcgat 420
 tctggctgtg tcattagctg tttgcaaagc tggggctagc atcaaga 467

<210> 21345
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-C1

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 gaaggcgagc atgcatcacg accccaaccc cttecgacgag ggcagcgccg aggacaaccc 180
 cttctcaaat ggaggagccg gaggcggaac gcagcagtag ggcttccggc cgactgagcc 240
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<210> 21346
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 <212> DNA
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<223> Clone ID: LIB3062-040-Q1-K1-C2

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 cgaaggcgag catgcatcac gacccaaccc ctttcgacga gggcagcgcc gaggacaacc 180
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atgggggact ctcggagcaa ggtgaaggag ctctcgtcgc gggaatcata tctgaagcag 360
cgagaggcgg atatcaagag gagggaagag gcgctgaaaa atgctggcgt gccaatggat 420
gaaaaaaact gggcaccatt ctttctcatc atccaccatg 460

<210> 21347
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-C3

<400> 21347

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gaaggcgagc atgcatcacg accccaaccc cttcgacgag ggcagcgccg aggacaaccc 180
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gggggactct cggagcaagg tgaaggagct ctctcgtctg gaatcagatc tgaagcggcg 360
agaggcggat atcaagagga aggaagaggc gctgaagaat gctggcg 407

<210> 21348
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-A3

<400> 21348

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taagaagaca agtgagagtg ttgcattgaa gaaggtaaag atggagaggg agcgagaagg 120
tttccatta acctctctta gggaaataaa taccctcttg tctttccacc atccttcaat 180
cgtggatggt aaggaagtag tagttggaag tagtttagat agcattttta atggtatgga 240
gtacatggaa catgatctta aaagtgtcat ggagaccatg aaacaacat atacacaaag 300
cgaggatcaa tgtttgatgc ttcagctgct agagggtgta aaatatctac atgacaattg 360
ggtactccat agggatctga ag 382

<210> 21349
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-039-Q1-K1-G6

 <400> 21349

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 ctgagttctg tttgttgaga cgcatagagc tagagtcgac aatgtcgctc gtgagggcgca 120
 gcaacgtggt cgaccccttc tcgatggatc tctgggaccc cttcgacacc atgttccgct 180
 ccatcgctcc gtcggcgacc tccaccaact ccgagactgc cgccttcgcc agcgcccgca 240
 tcgactggaa ggagacgccc gagggcgacg tgttcaaggc cgacctcccc ggcgtaaga 300
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 gcatggagaa ggaggacaag gacgacaagt ggcaccgctg cgagcgacgc agcgccagct 420
 tcgtcaggcg c 431

<210> 21350
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-039-Q1-K1-G7

 <400> 21350

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 cctggtgatc agcatggaga acatcacact gaactggtac tttgggaaca accggtccat 180
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 gtcactgtcc aaggacctca tggcagtggc cggagacgca cttagacca acatcaccac 420
 gctg 424

<210> 21351

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-039-Q1-K1-G8

 <400> 21351

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<210> 21352
 <211> 407
 <212> DNA
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 <223> Clone ID: LIB3062-039-Q1-K1-G9

 <400> 21352

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 gtcggtgttg atcgcaataa gtaccagatt caaatccctc ttccacccaa aattgaccca 180
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 aagtttgtaa agcttggtat tgatcctcca aaaggcgtcc tttgctatgg cccacctggc 360
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<210> 21353
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H1

<400> 21353

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tattaatcag gccggcatca agtactacaa aaagctcatc aacttattga tagagaacgg 180
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tgagaacttc ggtgacaagg tgaagaattg gttgacctt aacgagccac agacatttac 360
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<210> 21354

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H10

<400> 21354

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atatttgtct ccattgttgc ttacgcacga cacaaggggc tcgtcggatc ctgaatagct 360
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<210> 21355

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H11

<400> 21355

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gtgttctagg gaaggataaa ccgaggaaac cctttcatca tcaaagtgtg tacaaccaca 180
gcttaatcat ttaatagatt tcctgtgaga caatTTTTat ttctaattcc atggtgtggt 240
tcgaacttgt gaaaagtaca aagctcatat tgcttaatga tggaaaaaac acaaccatgc 300
ttgagttggg tgctataaat tcatgatatg gtttaatgtc ataggactgg actggcagat 360
agaagtaaat cgatatttat ctcttgtagc agttgtgcta agaaaatcat ttttgtgac 420
atttac 426

<210> 21356
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-039-Q1-K1-H12
<400> 21356

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attcacatg 429

<210> 21357
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-039-Q1-K1-H2
<400> 21357

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caggtccgag cggaggacca ggtggccttg gaggagcaca gggcgctgtc tgccggggac 240
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caggtggaca agctggaggt cggggagaag gagctcaacc ggacgaccga ggtcctgaag 360
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ctgtccctg 429

<210> 21358
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H3

<400> 21358

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acagtgagag caagacagtg gaagatgcat gtctagacat gctaaagagt ggacaacgcc 180
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ctacatcacc tattccaagc atgtctgaca acgactggag aaagttggtg gagaagtggg 300
ctaccccaaa tcacaaggaa agttgtgtga agaacaact taatcgtgaa aaagtacagt 360
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aata 424

<210> 21359
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-039-Q1-K1-H4

<400> 21359

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ggggtcacgc gcctggcgctc cgccgcctgc gcgggcgaga agttcccggc ggggcgtgctg 120

tacgcgtcgt gcgaggacct gccgaagctg ggcgcgtcgc tgcactggac gtacgacgcg 180
tccaagagct ccctgtcggg ggcgttcgtg gcggcgcccc cggcggcggg cggatgggtg 240
gcgtggggcc tgaacccgac ggcgcagggc atggccggcg cgcagggcgt ggtggcgctg 300
gcggggggccg gggccgcggc gcccgccgtg cggacgtaca acatcacggn gtacgtcccc 360
ctgggcaagg cctncacgcc gctggacttt ccggcgaccg acctcgccgc ggacgccggg 420
ggcggcaaga tccgggtgt 439

<210> 21360

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H5

<400> 21360

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ctgttcctta taacttcctt caacctcctg atcacaacaa cgctggctta catacctaca 180
tccttgatata agattacaca cacttcgctc acgcacactt tcacaactta catgaccttt 240
tgatgaatta cacaaccttt aactaacaac agacatatac aacctttatt taccaaacac 300

<210> 21361

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H6

<400> 21361

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agaaagggtcc tgggacatca acctaggatg gttcttagag ccagtgggtc gtggtgacta 180
ccccttctcc atgagatcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 240
ggagaagctc gccggttcct ataacatgtt ggggttaaac tactacacct cacggttctc 300
caaaaacatc gatattctac caaactactc acctgtgctc aacactgacg acgcctacgc 360

cagtcaagaa gttaacgggc ctgacgggaa gccattggt cctcctatgg gaaatccatg 420
gatctacatg taccct 436

<210> 21362
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H8

<400> 21362

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cggagattcg agagggatgg cgttcacgat gcgggcagtg aaggtgcctc cgaactcggc 120
ctcgtctggag gaggcccggc accgcgtctt cgattttctt aagcaggcat gccgctctat 180
ccccaccgtc atggagatct acaacctcga cgacgttgtc acgccctctc agctccgctc 240
gaccatcgct aaggagatcc gtaaaaacca gaacgtcacc aacccaagg tggttgatat 300
gcttctgttc aacgcgacgg aggagctgaa caacatagtc gaacatgcaa agcagcgcca 360
tcatgtgatt gggcagtatg tgatcgcca agagggcctg gtgcatgagc tggggtcgaa 420
agatctaggg aactctgact tcctgaagaa attc 454

<210> 21363
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-H9

<400> 21363

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atattcttcc tatcttacc tacttcctcc aagccgagtt tcctatcagg tgacgacaca 120
caacacctca tcataccctg atattttctat accattaacc actcca 166

<210> 21364
<211> 122
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-040-Q1-K1-A1

<400> 21364

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ga 122

<210> 21365

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-A2

<400> 21365

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ttcggtcggg gtccaaatac tctatgctat attttggggc cttatgacac tcaactacttt 120
tggtaacgaa cttgccccaa caagcaatg 149

<210> 21366

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-G5

<400> 21366

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gggcgacgtg ggggggtgct ccaggaccgg ggtgccctac tacaactgcc ggatctcgac 120
caccgccaac ccctacaccc ggggctgcga gagcatcacc aggtgcaggg acgcggatcc 180
ctaggctctt gctttgcttg ctccatcgcc ttgcaaaggg aagtggggct gctcctcgct 240
ccttcgacgc tgcagggcgg tgttgctgca aatgcttact aaatgaagtg tattttattc 300
tgtcttcttc tttgatcttt ctctctcttt tgtttgctct ggtcgtcctt cctactttgc 360
cgggatattt agtaagtgtg gtaatgaaac actaatacta atggatgaat ctctgttgca 420
agatgttgat gagcaat 437

<210> 21367

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-039-Q1-K1-F2

 <400> 21367

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 aaccaccttg ataattttta atcatcacac aatattaaag aatttatgac aacgaacagt 180
 atagacatta tccatcaatc cctactgagt cctctcccta taaacagtaa tattgaattc 240
 cctaataccta tcgaagattc aaaattcgat atatcaaata tccaatcaa 289

<210> 21368
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-039-Q1-K1-F3

 <400> 21368

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 ctgagacggg aagaaggaga agcaggggca atcacagcaa cctggacctg gcaatcacca 120
 ccagcagcag atactgccgg gtggtccgca ggacattcag ggagggcttg ggcttgggtc 180
 acaaatggga gcacagtatg gtgtccctgg gactgggatg ccttcatttg gttttgggtg 240
 tgttggcggc gggtttgggg gtccaaatcc ttatggtaac atgccatctt ccatgggtgg 300
 aggtggcgca ggtggttttag ggtcgatggg aagccagggtg cccagtgggt tggctagtgc 360
 tggggctggt gcatttgggc ctggcggatt ggggtggtggt tcatatggtg tatcatctca 420
 gttcgggt 427

<210> 21369
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-039-Q1-K1-F4

 <400> 21369

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 aggaggtgta ccacccgggc gccctcaagg cggcgttcgc tgagttcatc tccaccctca 180
 tcttcgtctt cgccggccag ggctccggca tggccttcag caagctgacc ggcggcgggc 240
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 ccttcgtggg cggcaacatc accctgttcc gggggctcct gtactgggtg ggcgagctgc 420
 tgggggtccac cgtggcggtgc ttcct 445

<210> 21370
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F5

<400> 21370

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 aaggacttgg tttggataat tctactcgtc aacaaaagtg attaaaaatg gtgggttcttg 180
 cagcttcaat cgtttcaaag tcgggaaaag cacttgtttc aagacagttt gttgacatgt 240
 ctgcataag aattgaagga ttacttgctg cgttcccga actggttgga actgggaaac 300
 agcacactta tgttgaaact gaaaatgtgc gttatgttta tcaacctatt gaaggattat 360
 atcttctact tatcaciaac aagcagagca atattcttga agatctggac acattgaggc 420
 tcctct 426

<210> 21371
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F6

<400> 21371

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caatcttaga cacgcgcgct taccaactcc tagctcttca tatataactca cctaaattac 120
aatacactca tcattatcac cacaacgatt tgactggaaa aactcatcac ttcacccaac 180
ttaatctcct tgcagaacat cccactactg ccatctacat aaatctctac aaggccccca 240
cccttcaacc ttcacatcag ccaccagcc taaatcctga ctgacactct ccttaccacg 300
caccatatac tcccgtgcaa acgtttctcta ctgcattat aaccataca attgccacaa 360
gtttatctcc cgtttctttc cctttcttcc catectatct catcacgtta tcattctctt 420
ccct 425

<210> 21372
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F7

<400> 21372
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tgcttgctta tggcaacact gtttttgatg aggactatga aagaagctca tcagatactg 120
aagagaaaga caggcaagaa agattggaga aagaaagaga aatgaagctg agggaggaga 180
tggaaggaga gcagagaagg cttgaaaagg agaggaggtt ggaacaacag agagaaagag 240
agagagaacg acaggcagtg gagagggtta caaaggaggc acgtgagaga gcatctgctg 300
aagctcgtgc aaaagctgaa agagaggccc gccagcgttc acagcgtgct gctgtgcaaa 360
gggctcaaca ggaagcccggt gagagggtg cagttgaggc caaagaaaga gcaactaggg 420
tagctgc 427

<210> 21373
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F8

<400> 21373
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caggaagctc atgcatgcac tgctgggttg aaagctgtga caacatcagt aacagctgat 120

gcaattgaag aatgccgaaa gctctgtggt ggacatgggt acttgaacag cagtgggctt 180
cctgagttgt ttgcggtcta tgttcccgct tgcacttacg aaggagacaa cgtcggttttg 240
cttttgcagg ttgcaaggat tctaataaaa accgtttctc agttggcatc cgggaaacag 300
cctgttggca caatggccta catgggcaaa gtgcagtatt tgatgcaatg caaatctgct 360
gtcagttcag ctgaagattg gcttaaccct gatgccatac aagaggcatt tgaagcaaga 420
gcgctc 426

<210> 21374
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-039-Q1-K1-F9

<400> 21374
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ccgcgggggt cgggcgcgcg gcccgcgctc ccgacgccga cgcggtggcc ggcttctccc 180
gctactccga ctacaagccg ctgggggtgga aatgcggctg cgacggccgt ctgtacgacc 240
cctagccgag cgtgcaacgc cagtgcactc tgctccggtc cggtaggggtg ggggagactg 300
gaggccatcc aggttcttgg agtcactctg tcttggtttt tgcatgcccc tgggccatgg 360
cggcttgctt cacaagctta ttatntctct ctctattctc tactagttcg agcttgcagc 420
ttgtaccagc cgtagccgga gccatttttt tttttggc 458

<210> 21375
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-G1

<400> 21375
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aggcaccgca taggcaccca cgatagaggc tctactgcta gtgcccattg ccaagttgga 120
cgagcatagt cgatctaccg ccaagccgtc atatggtggt cgacctcgcc cagccgccga 180

tctaccgcgc cggaggacca ccgccgatta acaggcacac cacatgcgcc cacggcgaag 240
gtccacctat agttgtcgcc caagtcgatg gaccgaaaag gacgccgggg ttccaccatg 300
gtggcctcct ggattcgatc gtcgcctctg cgtctcctcc tcttcctctg ctggttggtc 360
tgttccaggg ttcaaaggcc aggtga 386

<210> 21376
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-039-Q1-K1-G10
<400> 21376

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aaattgggtg agagcagtgg atatgctggc agtgacctct atgactacaa gtctcgagaa 120
ccagattact gcattggaga acaagtgtc aggtgattac caatggattg gtttctgtca 180
caatgatctt cagaatggca atatcatgat tgatgaaaag accaacgtgc tgaccatcat 240
taaaatggcc atcgggtgtc ctaaaagcg gaatgacaaa tgggtggcta atcagctttt 300
aaagctacat ctggagtaaa aagcttcgaa ggatgctcat cttcagttta tgcgctacta 360
tttgttgact gacatggact tgcaaaagcg cacttaatac ttggtagttt tgga 414

<210> 21377
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-039-Q1-K1-G11
<400> 21377

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gtgggttctg gggctgatga gcagtgtgct ggttatggta gacatcggac taaatatagg 180
cttgaggggg ggaacgcatt ggatcaggag atgagactag atgtgcagag aatatggaaa 240
aggaatatgg gaagagatga taggtgcac tctgatcatg gcaaggaggc ccgtttccca 300
tttcttgacg agaacgtgat aaaaactttg ttggaaattc cgttatggga aattgctaag 360

cttgatgaac ctgttgggaag ggggtgacaag aagatcttga gagagggtgc aaggctgctg 420
 ggcctacaag aagctgctct tcagccaaag cgcg 454

<210> 21378
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-G12

<400> 21378

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 gccacccgcc gcgcggtcca cctccacgtc cgacgcccgc ctctccgact acgagaggct 180
 ctccgtttctc ggccacggca acggcggcac cgtgtacaag gcgcggcacc gccggtccgc 240
 gcagccggtc gcaactcaagc tattcgcgga cggggacacc tcggcggcgc gcgaggccga 300
 gatactgatg ctgcgcgagg acgcgcccc agtcgtgcgc ctacacgagg tgatcccgtc 360
 ggccgcccggg gaggctcccc cggcgctggc gctggagctc atgcccgggg 410

<210> 21379
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-G2

<400> 21379

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 gtatcgatat agttaaatgt ccttggcacg agaggtccta ggcggatgcg ttgcatcatg 180
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 cgtagcactg cctcattctc caagtccatc atggactcat ccatggattt caatagcgct 360
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<210> 21380
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-G3

<400> 21380

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tgaccttcat ctcttcaagg atggcatccg tccccctctgg gaggatcctg caaaccagaa 360
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ggtgctagtg g 431
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<210> 21381
 <211> 320
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-039-Q1-K1-G4

<400> 21381

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tatcatatta nttatacctt cattccacca tatgttctac actaattccc tcacatcata 180
tacaccatac ctgaatactc actacaacca actcacacac tacatgcaca cacagagcat 240
attctccttt aatccttaca caattcattc cacacaacat gtctcttctc ctacaccatc 300
cgaaccactt ccatactatc 320
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<210> 21382
 <211> 443
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F12

<400> 21382

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ggtgacgctg ttcagctgca tgctgtggat cttctacgag ctgctcaagt cgggcgcgca 180
gctgctggtg accatcaacg gcgtcgggtg cgtgatcgag ggggcgtacc tggcgcgta 240
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cgtcggcgtc tttggactcg ccgcgctcg caccatggtg gtctccagcg ccggcctccg 360
cgtgcgcgtg ctggatgga tctgcgtcag cgtcgcgctc agcgtattcg ccgcgcgct 420
cagcatcatg cggcaggtgg tcc 443

<210> 21383

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-039-Q1-K1-D5

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catcgaccag cgcatctgga acaccggctc catcaacacc cagatcggct ggctccagga 180
catgaagccg tccctctgta aatcggagca agactgcaag gattacttca gcaaattccct 240
gttcgctcgtc ggggagttcg ggggcaacga ctacaacgcg ccgctcttct ccggcgtccc 300
atcttctgat gtcaagactt acgtgcccct tgttgcaaag gctatcgcca atggcggtga 360
gaaactgatc gagcttgggg caacagacct nctggtgcct ggcgttctcc caattggct 419

<210> 21384

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D6

<400> 21384

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cggcatcaag cagccagcat gtccgacgag aatcaccacc acttctttaa ccaccacaag 120

aaggaccagg agcatcccg cccagagtac ggttactccg ataccaggt ggtcacccgc 180

cccgacgacg gccatttcta gaggtacact aaacaggaaa cataacttaa gcacaagcat 240

gactctcgct caggccgatt ccatccaccg actacaattc gcctatctta taaacaatac 300

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<210> 21385

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D7

<400> 21385

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caaatacagc agctctgaga tgggagcttg agcttaatgg tgatgacagc ttgaaccttc 180

tgtcctacca atctgggttaa ccttcatttg taggccaac aagttaatat tgttcataca 240

aacatgtatg tccatgactt cttgaggcaa gtagtcagcg aagttccaga tattggtgca 300

tctgatgtta ttgctgatga taagcttggc aaaggacgta tatctatcct gtagttgata 360

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<210> 21386

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D9

<400> 21386

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taatcttatg acgctgtata agaaaatctc aatgcagaa tatacatttc caccatggac 180

gtcgttccct gccaaagaggt tgttaacaag aatccttgat ccaaatccga tgacgggatg 240
caagagcaca aaagctgctc gaaataaaat actacccaaa acaatgtagg aattttggag 300
agtctaaaag ttcctactgc acttactagc acatagccag agatagatgt atttggggga 360
aagattcttt tagggaagta tagacaacat gcatatatcg aaatgaaact atttgtgtga 420
ggaaagagtt gcaacc 436

<210> 21387
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E1

<400> 21387

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agaggcttgc caagaagtac catgctttct tggcatcaga ggccatcatc aagcagattc 180
cccgtctcct tggtcctggt ctcaacaagg caggcaagtt cccgaccctg gttactcacc 240
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agaac 365

<210> 21388
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E10

<400> 21388

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agttcttggg gaggctatgg acttgatgac tgctctgcag ctctgtgatga agaagtcaag 180
tgctcatgac ggacttgtga agggctctacg tgaggctgcc aaggccatcg agaagcacgc 240
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ggcactctgc gctgagcaca atgttcacct ggtcactgtt cctgccgcga agactcttgg 360
cgagtgggcc gggctttgca agattgactc tgagggcaag gcaaggaacg ttgtacgctg 420
ctcctgtgtc gtcgtc 436

<210> 21389
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E11

<400> 21389

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cgggcggagc tggctgtgcc ttcattaaat atcaaacaaa agatcaagca ttggcagcta 120
ttgaagctct aaacgggaag cacaaaatag agggttctag cgtgccgttg gttgtcaaat 180
gggctgatac agaaaaggaa aggcaggctc ggaaagcaca aaaagctcag tcacagctat 240
ctcatatacc caatgcaagt ccaatgcagc agcactcttc agtatttggg gctttacaga 300
tgggatatat gcctcaatac aatggatttg gttatcagcc aacagggaaca tacggactta 360
tgcagtaccc tctatctcct atgcaaaatc aaggcccctt ccagaatatg gttcaacctc 420
ttactcaagg gaactcgata agaggagt 448

<210> 21390
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E2

<400> 21390

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caactctttt aacgatgttg actgggacac attctgaagc tgcatacat gagttcacaa 180
cgcttacttg cattcctgga attgttcatt acaatgatac caaaatccag cttcttgatc 240
ttcctgggat cattgaagga gcttctgaag gcaaggggag tggtaggcag gttattgctg 300
ttgcaaagtc atcagatctt gtgctgatgg ttctggatgc ctcaaagagt gaaggacatc 360

gtcaaataatt aactagagaa ctggaagctg ttggactccg tcttaacaaa aggccttccc 420
 agatatactt caagaggaag aagacgg 447

<210> 21391
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E4

<400> 21391

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 ccgacagaag agaaaagtta agttgcaggg aaactcactg caaactcaga caccaagaag 180
 atcaccacga ttggtaaacg tgaacaatac ttgtaataag aacaaaaaag tgtcgaaagg 240
 aagagccaaa gtgctgaaaa caccaccaga tgcaacagat caggtgaagg atagagcaca 300
 taaatcatgt ttgcttgatg agaaactaga taatgccttg aaagctgttc atgaagaagc 360
 gacaggttcc ttatctcagg atctcaagaa actggattcc ccacggtgtg aggttggctt 420
 aagtaaagag cat 433

<210> 21392
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-039-Q1-K1-E6

<400> 21392

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 tcggtggaga tggccacagc ttacgctccc atggcgagcc aggtgatgaa gagcagcctc 180
 gtcgtgcact cgaggccgag gggcctgtca ggcgtgtgtg cgctcacgag gcggccccgg 240
 ttcaccgtca aggccatcca gcccgagaag gcaacgtacc aggtggtgca gcccatcaac 300
 ggcgaccctt tcatcggcag cctggagacg ccggtcacct cgagcccgtc cgtggcgtgg 360

tacctctcca acctcccggc ctaccgcacc gncgtgagcc cgctgctgcg gggcgt 416

<210> 21393
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E7

<400> 21393

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ggcctcgcct gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtcgcc gcggcgggcg tggaggcggc 360
ggcggcgggcg g 371

<210> 21394
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E8

<400> 21394

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acatgacgcc gccggcgacc gggcaagggg gaggaggcca taaaaataga accagactgg 120
tgttggccat tgcattgcct ttagctgctg caactgcaat attagctctc gcagtagcat 180
gtttgtatta ccggagtaga agaagaacaa cagcgcaaag ggactcatca ggaaagccat 240
gttctcctag tccagatgac attgataaga gcatcgattc gtcctttttt gacctaccgg 300
cattacgggc agcaaccaat aacttcgctg aaagcaataa gcttggcgaa ggagggttcg 360
gtgcagttta taagggaatc ctttctgaag gccacaagt agcagtgaag aggctctcac 420
ttggctctac acaa 434

<210> 21395

<211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-E9

<400> 21395

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aacgtcatgg atcttgggta ctccgagacc gaacggagacc gtcggctgga gacgctgatg  180
gtgaagagaa aatccaggaa aaacatacag tttagagctgg acggcgtggg cggctctatca  240
gacggtctat cacggttacg tccgaaagtt catcctgttt cagtttcagc gcgaaggatg  300
aaccgcgttta ctaccgatga ctccgagatc ccaggctcgg ctctctctat tctgcatcca  360
cgagacgacc ccttcagttt tctcaccgat gaacagccag ctgacgacaa cagtggccac  420
cctgcgcacc at                                                                432
  
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<210> 21396
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F10

<400> 21396

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gcaatcgcaa cccgttcagc caatcattgc cgtctccacc aactccgttc ccctattacc  180
tagttagtcc agtccgcctg ctgcctgcct caacggatcg acgcgacagg agggagggag  240
gaaggagacg gtcgatcaga gtctgagacg gaggccgatc caccaccgca gcgacgagcg  300
ggaggagatg aagatcatca ttgacacgga tcccggcatc gatgacagcg tggccatcct  360
gatggcatte cagatgccgg gcgtccaggt cctagggctc accaccatct tcggaaactg  420
caccacagag catgccacac gcaacgc                                                                447
  
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<210> 21397
 <211> 419
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F11

<400> 21397

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gggagtggga gaagattaat caagataaga agcagaactc gtccgatggg agcatgcatc 120

caccagacct tgaaaacgct gacgaattaa tggagaatgg ccaccatgtc aagcagagtc 180

taccaacgac agctgaagac atgggctgtc cgatggacag taaagaacga catcctgcag 240

cacttcataa gcaaaatgat gtttctgagc acaagtcaca gcagcttgat gacacattga 300

aacaccaaaa gagctgtgat catcctcaac ctgtaggaag ccctgagcag gatggaaaag 360

actacaagag gcctaagctt gacggatagg tttatatata tgaatttggg atgggtttc 419

<210> 21398

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D3

<400> 21398

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tcgcggcggc ggcggctctg gcagcggcgc tgctgctgct ggcggcgggg gccgggacgg 120

cgtcggcggc ggtgagctgc ggcgaggtga cgtcgctcggg ggcgccgtgc ctcggggtacg 180

cgatgggcag cgcggcgtcg ccctccgcgg cgctgctgcag cgggggtgcgc tcgctcaaca 240

gccgcgcgtc gtcggcgggc gaccggcagg ccacctgcaa ctgcctcaag agcatgacgg 300

gccggctcgg cggcggcgtc agcatggcca acgccgcaa catccccggc aagtgcggcg 360

tctccgtcgg cgtgcccacg agccccaccg tcgactgcac caagatcaac tgatcgatgg 420

aac 423

<210> 21399

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C1

<400> 21399

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aggatgacca aactgtaaag aaggaaaaga aatccaagag ccagccaatg gagggatcca 180
aaagcgatga tgaggggtccc gaaaacaaaa aggaagaaac gcctaaagat cggattcgaa 240
ggaagaagtg gttcaacatt catttgaaag tggacaagag aaggccctgc tgataactgc 300
gatatatcat gtgctcctca agatctctgc tccaagtaca aggaaaaatt cccatttgac 360
gtccaggaag atgcatcttg tcgatcatga tcaagcccat tctatttcct gaaaagtc 418

<210> 21400

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C10

<400> 21400

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accaagttcc gtccgtccgg tagccacgac acgacggtga cgacgacgaa cgcgggcgct 120
cctgtgtgga acgacaacga ggcgctgact gtggggcctc gcggtcccat cctgctggag 180
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ctgacgtgcg ccgacttcct gcgcgcgccc ggcgtgcgga cgcccgatgat cgtgcgcttc 360
tcgacggtga tccacgagcg ggggtccccg gagacgatcc gcgacccgcg cgggttcgcc 420
gtgaagttct acacccgcga gggcaactg 449

<210> 21401

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C11

<400> 21401

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tgggcggtgg acgtgtacct gattttacta tgtatgcgtg acaacagata tgtgtctgct 120
 ccttctatatt tcttgccctt gcttcaaaaa aatggatctg aacattgcga gttcgtactt 180
 tgtagacaat atatatatgt gtgtgtatgt gcttggtttg cttc 224

<210> 21402
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C12

<400> 21402

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 ttttattggg tatctgctgg tggagaagtt cttaccctg atgcgcctca actttactgg 180
 ctttgcacgc tatttttggc gtttgatgtt ttctttgtcg tcttctgtgt ggctttggcc 240
 tgcacatttg gtattgctgt ttgttctgct cttccttgta tcatagcaat tttatatgca 300
 gtgtcggatc aggagggagc atctgaagat gacattcgtc aaattccaaa atacaaattt 360
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 atga 424

<210> 21403
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C2

<400> 21403

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 tgacaccatt gacaacgtta aggccaagat ccaggacaag gagggcatcc cccagacca 180
 gcagcggctc atcttcgctg gcaaacagct tgatgactgg cgcacgcttg ctgactacaa 240
 catccataag gagagcacc cccaccttgt gctccgcctc aaggaggagca tgcagatctt 300
 tgtgaaaacc ctgaccggca agactatcac cctcgagggtg gagtcctatg acaccattga 360

caacgtcaag gccaaagatcc aggacaagga tggcctccct ccagaccagc agcggc 416

<210> 21404
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C3

<400> 21404

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tggtagaaag cattcgagga cgcgaggcaa agctgcttcg aagtgaagtg ttgactgaaa 180
gcagcgggtgc atggttgggt tgggaaagcg aacggactaa tcagttttag aatgctttgt 240
taacctaggt agctatgcat tcataaagtg cccgctgtgc ttgactgcag aacgtgaaat 300
tcaattagac agactgaaat gcaatgtacg tacgctactc ctaaacccta agccatttgg 360
ccatgatcta ctgatgatga agtgaaaaaa aaaaaactaa aat 403

<210> 21405
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C6

<400> 21405

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tgagaacaag ctgacacctc acgggctcta caagcaagcc acggttggag atgtgaatac 180
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ggaggaggct gccgcctctt aaaagtctct taatagtgtt gccaaacagc tatttgtcag 360
atgagctttg tgccatttcc tcattagaag tatatcattc gatccattgg ggatctgtga 420
accatgtacc tg 432

<210> 21406

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C7

<400> 21406

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agtacgaaac caaggatact gatatcttgg cagcattccg agtaactcct cagctcgggg 180
ttccgcctga agaagcagga gctgcagtag ctgcggaatc ttctactggg acatggacaa 240
ctgtttggac tgatggactt accagtcttg atcgttacaa aggacgatgc tatcacatcg 300
agcccgttcc tggggaccca gatcaatata tctgttatgt agcttatcca ttagacctat 360
ttgaagaggg ttctgttact aacatgttta cttccattgt gggtaacgta tttggtttca 420
aag 423

<210> 21407
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C8

<400> 21407

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taacctttca cttactaccc accaatcttc caaacctaata acactactat ctctacaaca 180
ttcctactta catataacct aataccaatt cttccacatc ttctaccaca attacattcc 240
caatcatcta ctcttcatt ctcaattcat cctacttata aactaaccat attcttactc 300
catctccaac tatactataa cactgaacta aaccatcatc ttttacatct a 351

<210> 21408
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-C9

<400> 21408

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tctggtcggc aaatgcagca aaccaaccat gtctttgtcg tgtgggtgtgg ctgctgcatg 180

taacaggaaa agaagcacgg cgggtgaagg ttcgactgtc taatgcatga tgctccgata 240

ccataaactc ctcaccgggc gcataaccat gctaagattt atcacgggta tgatcaattt 300

gtgatggctg attgctgcc aatggaggtg gctgtttctca tctcactact ctatatccca 360

caagtgaag caattgtaaa aagttctaga gccactctat atcccacgaa cgagagcaac 420

tgtaaaaagt tctagagctg gtaagataag tctgaatac tgt 463

<210> 21409

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D1

<400> 21409

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ccgcaatcat tttctttacc ttttctact agatctactt actcaattat cactctacta 180

ctatccacat gactattcta tcacatcaaa cccttatcta ccgaccacaca tcaatata 238

<210> 21410

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-039-Q1-K1-D10

<400> 21410

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cacctatta ggcttggact ggcacttaac ttctcagtgt tctactatga gattctgaac 180

tcacctgac gcgcctgcag tcttgcaaag caggcttttg acgaggccat ctcggaactg 240

gacaccctga gcgaggagtc ctacaaggac agcactttga tcatgcagct ccttcgtgat 300
aacttgaccc tatggacttc tgacatctcg gaggaccctg ctgaagagat tagggaggca 360
cccaagcgcg actcgagtga ggggcagtaa agccggctnt atgtgcctag aaactagtag 420
ctagtgtttg ctgctgtcga atg 443

<210> 21411
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D11

<400> 21411

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gctcctttgc gccagtgcg acggccacgg cctgagcggc gctgccagca tggcggctag 180
tatgagcagc atggagtcgc ggtcgggtccg aacgaacctg gtggagccca tagggcacgg 240
cgccgcgctg ccgtccggcg gccaggcagt gcagccgtgg tggacgagct ccggggctgt 300
gctcggtgca gtctcgccag ccgtcgtggc ggtggcgccc gggagcggga cggggattag 360
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tgacgagagc aacgaggatt ca 442

<210> 21412
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-D12

<400> 21412

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gcgtcgtggc tacctccggt gctgcggcca gcgcgactag gccagatcga cccagcgcga 180
cgacggttgt gcacggcgtc ctcggacatc gctccgccag ctcaaatctc caagcgctcg 240
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ctcaccgaaa ggtggctctg gatatctcct gactaacag caccacaaaa attgcattca 360
acaccaggat ggtgcgtttg cggtgataat aacaatcaga catcgcgaga ttataataga 420
gtgtgttatg cagtgatgta aatattt 447

<210> 21413
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-039-Q1-K1-D2
<400> 21413

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ctatgttccc aggaagtgtc cggccacaaa caggatcatc actgccaaagg accatgcctc 180
tgtccagatc aacattggcc acttggtatgc gaatggcctg tatgatggtc acttcacaac 240
atgtgtcttc tctgggtttg tccgtgctca gggcgatgca gacagctcct tggacaggct 300
gtggcagaag aagaaggctg atatcaagca gtagatttta catctagttt accaagaatt 360
ggacactgcc ttagctatgt tttgaattca tgtcactata tgcaatgttg tgatttcagc 420
tggtacctta aatctgaaga tttagtatct 450

<210> 21414
<211> 446
<212> DNA
<213> Zea mays
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<400> 21414

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ttacttctgc gcatcatcct catatccaat gttatttaca tagtggtgag gatggctata 180
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tttcttccat ataagcaact cgccagtatg gcaaagccag tttactctga taacggagaa 300
ctactggatg gtggcttcga tttgagcact ggtggggttt gcgagtattt atatgatgtg 360

atctacatca ctgtctttgt gcaattgatg tctatcattt ctgaaaaatt ttggtggaca 420
tatttagtga ttccagcttt tgctgg 446

<210> 21415
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A3

<400> 21415

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tctgtttaag accatcaaga caaatgttat tggtagcctg aacatgctgg gacttgcaaa 180
gagagttgga gctaggattt tgttgacatc aacatctgaa gtttatggtg atccacttga 240
gcatectcaa accgaggcct actggggcaa tgttaacca attggagtca ggagttgtta 300
tgatgagggg aagcgtgtag cagagacgct gatgttcgac tatcacaggc agcatggcat 360
tgaaatccga attgccagga ttttcaacac ctatgggcca aagatgaaca ttga 414

<210> 21416
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A4

<400> 21416

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agagaatctt gtcagtaatt ctgagacaga tcgatgggtt tgagcaggat agacgggtgg 120
tagtcattgc tgcaacaaat agaaaggagg accttgatcc agctctcatc agccgttttg 180
attcaatcat ctgttttggc ttaccagatc agcaaactcg tgtggaaata gctgcacagt 240
atgccaagca tttgactaga tcagaattgg ttcaattttc attggccact caagattttt 300
acagattggt ctacccatat tcttggttag ccagtgagga tgcatagata cagttctagt 360
ttcacagatt cgtctctatc cataatccat atccggtgca acctgtgact agagatgtgc 420
aga 423

<210> 21417
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A6

<400> 21417

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tatgcaactc gctgacaaag atgactaacc tgaaaacact atttatttcc acgtgcaatg 180
tgaatgagac tctcaacata gaaatgctaa agccgttgcc aaatctgaca tcattttctcc 240
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taaaattgtt cgggtctagt ctgaagaagg atcctgttag ctcgttctct catatgctaa 360
atcttgtaa tctattcctc actggagcat atgatgggga acagctaact ttttgcacca 420
gatggttcc 429

<210> 21418
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A7

<400> 21418

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tcgtccaccc cgatcacccg gcgggtatcg gagcatggcg tctgcggcgg ctgtggacgc 120
cggcgacgcg ccggagccca cgggtgcggaa cctcctagac caggagtccc tcaagtgggt 180
cttcgtcggc ggtaagggcg gcgtaggcaa gaccacctgc agctccatcc tttccgtcct 240
cctcgcgggg gtccgccagt ccgtgctagt catctccacc gaccccgcg acaacctcag 300
cgatgccttc cagcagcggg tcaccaagtg tcccaccctc gtccgcggat tcaccaacct 360
ctacgccatg gaaattgacc cgaaggtaga aatgatgat ttagccaatg aaagaatgga 420
g 421

<210> 21419
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A8

<400> 21419

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tggcgtctgc ggcgcctgtg gacgcgctcg acgcgcctga gccactgtg cggaacctcc 180
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cctgcatttc catcctttcc gtccctctcg cgggtggctcg ccagtccgtg ctagtcatct 300
ccaccgaccc cgcgcacaa ctcagcgatg ccttcagca gcggttcacc aagtttccca 360
ccctcgctcg ctgattcacc aacctctact ccatggaaat tgaccgtag gtacaaaatg 420
atgatttatc caatg 435
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<210> 21420
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A9

<400> 21420

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ctcatctcac tacaaattgc tactacattc ttataaaaga acttcatcac tctattcttt 180
catggctatg caccatctg actcaaataa tattgatcta tagtacacac accttctact 240
tcatgacaaa cttatcctat attataaaga tcttacgac tgtcacatcg tttactatgt 300
ctacaccgaa tgttctaatt atctatatcc ttccttcta caactattac cgtatcttcc 360
cactctcacc tcttaaccta tcatatctga tcccaacatt c 401
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<210> 21421
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-B11

<400> 21421

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cggtacagca ccggttgcag atacgatgta tacttattac ttgccaataa ccatatatag 120
cttgagtaaa aaaatcatat atacggcttg gtttcagttg tccaaaaggt tcagcttttt 180
tttttctaac ggtcttttct aagaatctga ttatgtagag aatttggttg taagtgagta 240
tataggattt agaatctgaa agtaaagtggt ggatttctct t 281

<210> 21422

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-B12

<400> 21422

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tactttctaca catcatactt atatccaaca tcatttacat atatttcaaa aatctcatcc 180
tactcattca ttacttaatc ctcaactcaa atcatactac ttaaagaatc atcatcccaa 240
tattcatata catatcaaca actctccact atagcaaaac caccttacta acatcacaca 300
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<210> 21423

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-039-Q1-K1-B2

<400> 21423

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gggctggctt tcctggtttg acaagagcag cacttgatgg gcactgagat actgggattg 120
tgtggatttc gagcctggac tattgaaatg aacagaaaac caaacagtcc taaccaaadc 180

cagcgtctat gtgacgagga ctgattaagg caccagtgcg gggcttcagc gacaatgttc 240
agccaagaca ttgcaaacca atataaagat attttccttg atgcctccta tccccaaaa 300
tgattgctcc tccttcattg acattggaga aacacataac tctgtttttt cctgaacggg 360
ggatttagaa gcatcatgaa nggtgtatgt gtagtgagaa gctatagatg gtgaaggaga 420
tagatatagg ta 432

<210> 21424
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-B3

<400> 21424

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gggggtgagc ggatcgagag ggcggcgtct gatgttgagt accgctgctt cgtcggcggc 120
ctcacctggg ccacggacga cactccctc cacaacgcct tcagcaccta cggcgaggtc 180
ctcgagtcca agatcactct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgttg aagcggctgc 360
ggcagcgggt acggtggt 378

<210> 21425
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-039-Q1-K1-B5

<400> 21425

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ccggagaaag agcggaaacc tctcactgaa gttcaacaat ttgtgttgca tgttgatgag 120
agggctgtgc atagatcaga atttgatagc atgataaaag agaaagaaaa gacttacaaa 180
aggttgagag aggagaacga attcgcgcaa aagattgagg aggagaaggc gctgaagcag 240
ctgaggagaa ccatggtgcc acatgcccg caggtcccca agtttgacaa accattccga 300

ccacagaaat cgacgaaaca ggtgacaagg ccgaagtcgc cacagcttca ggtggatgag 360
 cgagggggcga ggaggcatgc tntaatcaga tgaccaccgt cctcgcttca agatctctgc 420
 gacgt 425

<210> 21426
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-039-Q1-K1-B6
 <400> 21426

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 aatgttgctc acacttcatt ttgaaatgac aaagctttac attctacggc tttgttcatg 120
 gatgcgggca acaacaaagg agatatcaaa agatgagact tgggttactt tatccaccct 180
 tgagagaaac aagtcccagt atgcgatttc atgcttgccc ctggagtcc gtgacataac 240
 agtttcagct atggaccgaa ttgatactat gattcttaat ctgatgagcg agactgcgaa 300
 gtcatatgac atttctcaac cacttcagga aatcaatgag tctgttagac ttgcattttt 360
 gaattccttt ctggactttg ctggttatct ggagaggttt ggaggtgaac taaccgagaa 420
 cag 423

<210> 21427
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-039-Q1-K1-B7
 <400> 21427

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 tccctttttg tttctccacc aactaaagct gaccagaaac cacaagcttc tccaaagaca 180
 gctaaggaca taccctcaac tcataaagta actaccacta atgtagctgc acactctgat 240
 aaccagcaag taatccctgc tgatgcacca ccgcctgac tgcttgatct acgtcaccag 300
 acagatccat cgaaccgacc atcacctgac cttttttcac agctacaagg tctacttgga 360

ccaacatctg ctgctcctgc gctttctagg actccgtcta ccactaccaa tactttccaaa 420
ccaccatata tta 433

<210> 21428
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-039-Q1-K1-B8

<400> 21428

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gccgcttctt cctctggctt cccctcccg caccacacga gcagcttcct gccgccgcag 120
cgtacgcatg gcctcgtcgg acggctctgc cgcggccctg cccagcgcta ccgtcgatgt 180
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caggaacgcg gtggagtcgt cgctgttcaa gcagtggctg cggaacctgc agtcggagaa 300
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gttcgggaaa cgggtgggct ntctcaagtt caaggctgat atcgtggacg aggaaaccaa 420
aa 422

<210> 21429
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A2

<400> 21429

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gaaccgcacg ccaaggatcg tcatcgtttg gtgcattgctc cttgcgtcta tcttctcctt 120
gctgtgggtg aagatcgatc ctttcatctc cccgacacag aaagctgcog ccttggggca 180
atgtggtgtg aactgctgat ccagattgtg actcttatct gaagaggctc agccaaagat 240
ctgccccctc gtgtaaatac ctgagggggc tagatgggaa ttttttggtg tagatgaaga 300
tggatctgca tccaagttat gcctcttggt attagcttct tcggtgccgg tgctgctgca 360

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381

<210> 21430

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-G3

<400> 21430

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gtccttaaac aagccttgtg tcagaacatg agcccagggc ccaagtctta tattgcacat 180
atactgagta tgtttggcct ctgtggtttt ccaagcaagc taggaggaaa tatgagaaat 240
gttttgtgtg acagtgagtt agttgatctg gaactgttgc ttgcagatgg cgaatctcta 300
agtgctcatg cgggtatcct atcagcaaga tgcctaaat tattaccatc tg 352

<210> 21431

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-G4

<400> 21431 .

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tcggctgcac cctcgagatc atttcgccgt atcacctgta cctgaaccgg aagctcgtgg 180
tgcagcacta cgagatctgg cgcctcgtca ccaacttctt ctacttccgc aagatggatt 240
tggattttct gttccacatg ttttttctcg cactgatactg caagcttctg gaggagaact 300
catttagagg aagaactgcc gacttttttt acatgctctt gtttggtgct actgtcctaa 360
ctagcattgt tctgatcgga gggatgatac cttacatttc cgagacattt gccagaattc 420
tgttcctgag caattc 436

<210> 21432

<211> 144

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-G5

 <400> 21432

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 tctacatatc actataataa atta 144

<210> 21433
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-G7

 <400> 21433

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 tgcaaccagt attctgttcc aaaggacaaa ctggagcatt tcaaaaatat tactgcacag 180
 gacatagttt gtctgcagaa atcttctgag gtgctgctga aggaagagga tgttgcagta 240
 agcaatgtta agatagatct tactcgtgga aaagataacc cccttgaaag catcaagttc 300
 tttaaagatt ttgggtgcga cgagaagttc cccatcacag atgataggg 349

<210> 21434
 <211> 473
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-038-Q1-K1-G8

 <400> 21434

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 atgagcagtt ctgggtcatt ggaggtgtgt cctcacacct ctttgctgtg ttccagggac 180
 ttctcaaggt catagctggt gttgatacaa gcttcaccgt gacatcaaag ggtggagatg 240

atgaggagtt ctcagagcta tatacattca aatggactac cttattgata cctnctacca 300
ccttgcttct attgaacttc attggtgtgg tcgctggcgt ttcaaagcgc atcaataacg 360
gatatgagtc atgggggcccc ctctttggga agctattctn tgcatttttg gtgattgtcc 420
atctttatcc ctttctaaag gtttggttgg aaggcaaac aggacaccaa cga 473

<210> 21435

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-G9

<400> 21435

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ccaggtcatt cagctccaag gtgatcagcg caagaatgtt gctactttcc tagttcaggc 120
tggtgattgcg aagaaagaga acatcaagat tcacgggttc taaggacact gtaaagctt 180
gtgccctata ttgtgtgctt ccacatattg gggagcttga agcatcgaca agttactagt 240
cattgcttac ttatataaga acataagtag tatttgctat tgtcaagtgt gccttgcttg 300
atgcaagttg tgttttcgta tcattattat tatgcacggc catcgtagct gtatggcttg 360
tatgggttat tgccaactta ataaaagcac actctgtttg cctaaaa 407

<210> 21436

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H1

<400> 21436

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tgaacgacaa gagcagctac cgcgagctgt ccgagatcgc cgagcaggcc aagagacgag 120
ctgagatcgc gaggctgagg gagctcaaca ccctcaaggg ccacgtggag tcggtggtca 180
agctcaaggg cctggacatc gacaccatcc agcagaacta cacggtgtga gagccccctc 240
gctgcgatgt cgacgacaac acctttgctg cccgacggga gccatctgat tacagataaa 300
aattttccta gcttgtaagc gctataccac cagatactgc catatgatgg tatgggtggg 360

taccctgtctt tc

372

<210> 21437

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H11

<400> 21437

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cgaagaaact ggcagatata tcgaggaaag caaattgaga gttgttcctt ttagttcata 120
ccaatccctc gaagagcaac ccaactaatg aattcatgac actgagccag ctgttgaagt 180
tcctttactg aaagagatgc caaatttagg gagcgaagta ccagatgttg caaaagaaat 240
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ggttccaggc ctgagagaaa ttctgtgcc actgaacgaa gcaccaactt tattggcaga 360
atttccttcc cctcaaaaag atccctctgc tattacagtt gaacc 405

<210> 21438

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H12

<400> 21438

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ttcgcccttt cgaggccccg cgtacaagac caaactttgc gcgctttgga agggcaag 118

<210> 21439

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H2

<400> 21439

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ccagtgggat gtaagccgca gtggttggca tatattgccc accttcacct gagagaagat 120

atcggg'gcgcg caataatgat tagtgagcag tcctgtatgg agcctgggtg cagcctctgc 180
cagtattaag tgatctacgt gttatacatt ttttatgttc atgaaacatt gatccattga 240
taaaatatat cgtcaggtgg caaggggtcg atttggggga aaaaaatacc ttattaatat 300
actcaacaa 309

<210> 21440
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H3

<400> 21440

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ggaagaagcc cgacgaggag ggtggcgagg ggaagaagcc ctgccccgtc gcctagaatg 180
agaagaagcc gaggaagccg ctgagcatga agcccaagtc cgccggggccg caccacccgc 240
cctacttcga gatgatcaag gatgcatcc tgtcgcata cggcggaag gtcggtgcga 300
gcccgtacgc gatcgccaag caca 324

<210> 21441
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H4

<400> 21441

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gtagcagcag gcagctagct tgccaccagc tgattcattg cctctactag tgtttttcct 180
gagctcggtg gggatgatcg tcgatcgcc gccgctcgag acacgtacgt acgtacgtac 240
ccgatcgagg gtcgctcaa gatgatgat agcgggaacc ggaagcagag ggtggcattg 300
tcgccggtga acgaggccgt cgcggtgccc aatgaggaag tgtgggaggc ccggcccggc 360
gggatgctgg tgc 373

<210> 21442
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-H6

 <400> 21442

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 agggcagccc agctccacgg cttaagatct gcgatttttg ctattccaag tcatcagtgt 120
 tgcattcaag acccaaata gtagtaggaa cgccagcata tattgcacct gaggtgctat 180
 cccgtcgcga gtatgatgga aagcttgtag acgtatgggc ctgtgggggtg actctttacg 240
 tcatgcttgt gggagcatac ccatttgaag acccagatga cccaagaat atacgcaaga 300
 ccattcagca aataatgcaa gtgcaatata agataccaga tcatgtccac atatctacgg 360
 aatgccagca acttattgcc cgtatctttg ttgccaatcc aatgagga 408

<210> 21443
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-H7

 <400> 21443

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 aggcagtga caagaaagt atgctcaaag ttcttgca caaggcagagt tggaggctga 120
 aagtaagcaa actaacaaca ttttgagta tatgcaatca actgaaaggc atttggttat 180
 tcgtagccac aaggatttag agctaaatgg agagaccaa acacgaacta agggttaata 240
 cttgattcca acaagagaag acgatttatt gccaaagaaa agaactggt tgaatgacaa 300
 tgattctgag agaacttcca gagatatgga gctagtccac attatggaca atcagcagaa 360
 gcatgacaca cagaggggatg tggatactat gagaacaaca ttcaggggaa atgatgagaa 420
 gaac 424

<210> 21444
 <211> 404
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H9

<400> 21444

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cgggagatgg gacactaggg agaggaagac ggctctccag aacctggaac agttccagga 120

gaaggcaaag aaggaaaggc tgcggatttg gcaatatggc gatgttgaat ccgatgagga 180

cgagcaggcc ccaactgcaa ggaagcctgg aggtcgtcgg tagagctccc caaatgtgag 240

actctgctgg gagttataga ttcaacttag agggtagctt atttattccg ttagaaaaca 300

gaacttagtg aggcgaaact ttctcggttt gagcactttt gatattccgt attttacatc 360

gtaagcttat aaagttaaag gtacattgcc ttttctctga acac 404

<210> 21445

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A1

<400> 21445

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gttttttatt tttgtttttt tttttttttt ttttttaaaa atatttttac tttttttact 120

tttttatatt ttatattcta tttaacacaa tttctttttt ttttacaacc ctaaaacaac 180

acccttaact taacaactac aactccttta aaaaaaact ctacaaccaa actaacttta 240

aaaaaattta caacatacca tgtacctttt acaacacttt 280

<210> 21446

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A10

<400> 21446

tacattcact tatacatcat cttcacttac cacataataa ataataatac aagaaagatc 60

taactatatg aaggacatca aaaacctatc accaatacca caaaatctta acatacaaaa 120

caaatacata ttacatacac acctaacaat atcacttcta atctctttaat agacatttca 180
ctataactca ataccacaat atctcttata aatcaacca taacatctaa tccaaatc 238

<210> 21447
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-A11

<400> 21447

tgcaccacg cgtgcggtcg ttcgtccagc taactgcact gcactgcact gcacgcaatg 60
gccaccacgg cgaccgagggc ggcgaatgct gcaccggcgc gggagcagca ggccaacggc 120
aacggcaacg gcgagcagaa gacgcgccac tccgaggtcg gccacaagag cctgctcaag 180
agcgacgacc tgtaccagta catcctggac acgagcgtgt acccgcgggga gccggagagc 240
atgaaggagc tgcgcgagat caccgccaag caccatgga acctgatgac cacctccgcc 300
gacgagggcc agttcctcaa catgctcatc aagctcatcg gcgccaagaa gaccatggag 360
atcggcgtct acaccggcta ctgctcctc gccaccgcgc tcgcaactccc ggaggacggc 420
acgatcttgg ccatggacat caaccgcgag aactacgagc 460

<210> 21448
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-G2

<400> 21448

cacaagttca cctgtgtata aagggaagtt tctcatggct gctagaagac ttatgcgtgg 60
tccccatact gagtacggta tggctcttga tgcagaggac gtatcacaag ggagcaattc 120
atacatggga aaactgagat ctgatttctg ggggacaaac ttcaaaatat atgatagcaa 180
gccaccatat gacggcgcta aagcatcaag tagtcgatct agtcgtcgtt tcggaagcag 240
aaggattagt ccccaagtat cgtctggtaa ctatgaagtt ggacaggttt catacaaata 300
caacttgctc aaatccagag gcccaggag aatgaattgc actcttgaat gcct 355

<210> 21449

<211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-E9

 <400> 21449

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 tggtgaaata tcacatgaga taccatttct cactgtagtc tcttcactga agcgactgat 120
 gcgctacagc cttggatctg ttgctctggg ttcacttggt gtatctgttg ttgaatgggt 180
 gcggtttata ctagaatgcc ttcgtcgcaa gttgaagcta gttgattctg cccgagagag 240
 ctgctttgga aaagcgacgt cctcctcttc tgaatgctgc ctggggttgca tagactggac 300
 cctcaagtca gtaaactgaa atgcctacat tatgattgcc atcaccggga aaggtttctt 360
 caaagcttca gtgctcgcaa ctggattaat aatgaagaac attttt 406

<210> 21450
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-F1

 <400> 21450

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 tgtgtgggtg tttgtgtctg cctaccttct ctcccatttg ggggtgcagt taccctgcag 120
 gcacagaaag attaccacc agacatgcaa tgcaaggata aattcttgat tcagagcacg 180
 aaggtggcca ccggtaccga gatggatgag atccccctga tacgttcaac aaggaaggct 240
 gataaggtaa tcgaggaaat gaagttcaag gttgtctaca cattacctag ctacggaggt 300
 tcaaatagact ctagcgtatc attttttagga agccggagct tcaaagcagc gtctgacgat 360
 ctgatgatgc tgaagaatgc 380

<210> 21451
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-F11

<400> 21451

acccaagggg cgcggtctaa gagcacacac agccagtcct gaaacggaca cggttcttggg 60

gaggcaacca aacagatatt gcaatgaacc tcgtaccga aatgaggcag cagaagatga 120

tagtggctgg gaaactgtaa gccaaagtga ggagaatggg tcttgtaatt caccggggcgg 180

aagtgaaccg tctgtaaatg gcttctgtgg agaaaacgat gcttccgtaa gtggaaccga 240

ctgggatgaa aactgtgaca atgatcaggc acacagtga atcagtgaag tttgttcaac 300

agcagcaggc aggtctcgga acaaaagatc attcgccgga ctatggagat catcaaacac 360

cgtggaccaa aagaagatgg gatccaatac actcaacggt agg 403

<210> 21452

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-F12

<400> 21452

caagtgggtg aggcttggtg gtaaattggt tatcaagatc gctagagcag ttaaattggac 60

tgctattatc ttctgggata gatttgggta acttcatgca aaaatttact catccaggaa 120

aatttttcta ccattttgaa cttctggtag tcttgacttc atcacttctt atgaaccaca 180

tcattatatt aatttgtata gagtccatgt catgcttccc agcaggatca aggtcggtgt 240

cgtctccagg tccatcaa at gcgacaaggt cgagcgcacg caattcagct ccgaagtcac 300

ctcctttcaa cagaaagatg caagtaacac caagtcactt gcctttgatg gttgatacat 360

ttcactgtat atcattgcac gacagatcca tttagtagct ttttc 405

<210> 21453

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-F2

<400> 21453

acggccgcgg tgaagaactg cgtgacgcag gtggccaaga agtcgctgag cctgaacgcc 60

cggggcgggc tccacaacgc gcgcttctgc gagaaggacc tgcagacggc gatcgaccgc 120

gagggcgggtgt tcgcgtacgc ggacgacccg tgcagcccca actacccgct gatgcagaag 180
ctccgcgcgg tgctggtcga gcacgcgctg gccaacggcg acgccgagcg cgccgcggag 240
acgtncatct tcgccaaagt ggccgagttc gagcagc 277

<210> 21454
<211> 397
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-038-Q1-K1-F3
<400> 21454

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gtatatatac aggtataagc atgaaaattc agtctggagg gatgatagcc agacaccttt 120
ttcagtatgc ctacaactac aaacttgcca atatgaggaa agggctgaaa cagcatgaag 180
catcacggtt tttcgacaag atagttttca gcaaaataaa ggaagggctt ggagggcgta 240
tacgtctcat gatagctgga gcagcacctt tgccagggca aatcgaagaa ttcatgcggg 300
taaccacctg cagcgttgta gtacaaggat atgggctcac tgagagttgt gcaggatgct 360
tcacgtcaat cgccaacatt ttctcaatga ttggaac 397

<210> 21455
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-038-Q1-K1-F4
<400> 21455

accaagaccc gagccgtgta ggctgctaca gtctcttctt ccccgtaag ccgcggcgg 60
cggggcccgc gccctcatat ggtatagtcg ccgcctcctt gtcaccgccg attcgattag 120
gttgatacag ggaggagtcg cgaggggacg tagatgccga cgctgacaaa gctgtacagc 180
atgaaggagg ctgcccttca caacacgcc gacgactgct gggtcgtcgt cgacggcaag 240
atztatgatg tgaccaagta tttggaggac catcctgggg gcgccgatgt tctgctcgaa 300
gcaaccggta aggatgctac agaagaattt gacgatgcaa ggcacagcaa gagtccaag 360

gagctaattgc aggactac

378

<210> 21456

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-F5

<400> 21456

cgctcgaagg aggtattaat caggccggca tcaagtacta caaaaagctc atcaacggat 60

tgatagagaa cggaatagag ccatttgtaa caatttttca ttgggacgtc cctcaagcac 120

tggaagacaa gtacgggtggc ttttttaggcg acaggattgt aaaggattac acagacttcg 180

ctaaggtgtg ctttgagaac ttcggtgaca aggtgaagaa ttggttgacc tttaacgagc 240

cacagacatt tacaaccttt tcgtacggaa cgggagtttt tgcccctgga cggtgctcac 300

caggagaaaa atgtgctcag cctattgcta actcactcac cgaaccatac attgctggcc 360

acaacatcct tcgagcccac gctatgactg ttgacctcta caacaagaat tacaagggta 420

cagacggccg cattgggctt gcgtttgacg taatgggtcg cgtgccatat ggaaataca 479

<210> 21457

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-F7

<400> 21457

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atttgtatga gtctcgagga gcacttcgat attagcggtg aggagtccag cgcacaaaca 120

atcgccacag ttgaagacgc cgcggacctc atcgacaagc ttgttgctgg caaagcgtag 180

ttctgtacct cctctatcgt tgtcctacca ctctaggtct atcccttgat ctaggtttct 240

atgggtctgaa gatttgtgat tttctccgca ctggtgttgc tatccccgtg tcgtaataat 300

acgagatgtt ttaagcgggtt gaacattacg gtggtgtaat cagagtaatc tgttgctgtt 360

aaagtgcatt ngtgaatgaa ttgtctctac ccgagtagaa gaatcagacc attcgggatt 420

ctatgatcat tat 433

<210> 21458
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-F9

 <400> 21458

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 ctttctctcg gcaacgtgtg gaggaagggt tggcagctct cctgttagag aatcaggagt 120
 atactgaagc cttaccctg cttactagtc ttatcaagga agtcaggaga cttgatgaca 180
 agttacttct tgtggacatt gaccttttgg aaagcaaact tcacttctcc ctgagaaatc 240
 tgccaaaggc caaagcctcc ttaactgctg ctagaacagc agcaaagcc atttatgttc 300
 cacctgctca gcaaggcact attgatctcc agagtgggaat cctccatgct gaagaaaagg 360
 attacaagac tgcttacagc tacttctttg aagcatttga agctttt 407

<210> 21459
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-G1

 <400> 21459

acgtgccaaa tgggtctctg aacttcaaac caatgggtct ctggtagtgc cgagaattgt 60
 cttggaagcg cttctgctg ttttactatt cgaaaagaag caaaaggcaa aagctattga 120
 tataatagtg agtgaatgca gggataaggg ctatgacggg attgtgctcg agtcctggtc 180
 aagatgggct atttatggcg tgctggatga tcaagagcta cgttacatgg cacttgaatt 240
 tgттаagcag ctgggagagg ctttgcattc agtcaattcc aaatcaagta gccaccattt 300
 ggaactaatt tatgttattc cggctccaag aatgcaaaag ctcaataatc aggactttgg 360
 acccaaagat ctcatgcac tggtgacac tgtaaaggt ttttctctta tgacata 417

<210> 21460
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-G10

<400> 21460

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aattgggtga cggtttagtga gccccagaca ttgacgtgtc cttttcctac ggaactgggg 120
tctttgcccc aggtcgggtg tcacctggac tagactgtgc ctaccaact gggaattcac 180
tcgtcgagcc ttacactgct ggccataaca ttctcctagc ccacgtgag gctgttgatc 240
tttacaacaa gcattacaag cgcgacgaca cccgcatagg gcttgcggtt gacgtaatgg 300
gtcgtgtgcc atacggaaca tcgtttctgg ataaacaggc cgaagaaagg tcctggggaca 360
tcaacctagg atggttctta gagccagtgg ttcgtggtga ctacccttc tccatgagat 420
c 421

<210> 21461

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-G11

<400> 21461

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ggggtcctcc ttgagacctt gctgcccga gtgctctcgg tgagctactt tgtttcgatt 120
tatcaggaaa tccgtttgct tcatgttggt caggetcata tctgattgct ggattcggca 180
aaccgcggtt ggatcctgta tcggttagtc cttgcttgcg aggttcttgt tggtttggtt 240
tggtggtcga gcacgcgatg ttctgcttct ggatccagat ctggaagaaa tcgcgaagtc 300
gtcgtcggtc gggttcggag cgggatctga ngcggacgat aggatgggaa gcggcgggga 360
tcttctcggg ctgcaagtcc ttgctccacc tcgatgggat gatgttctct gcg 413

<210> 21462

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-G12

<400> 21462

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tgtgcctatg gttttgagaa gccatcggct attcagcaaa ggggaatagt tcccttctgc 120

aaggggcttg acgtgattca gcaagctcag tctggaactg gaaaaacagc taccttctgt 180

tctggaatct tgcagcaact tgattatgga ttggttgaat gccaggcatt ggttcttgc 240

ccaaccctg agcttgcctca gcaaattgag aagggttatgc gtgctcttgg ggactatttg 300

ggtgtcaaag tgcatgcctg tgttgggtgga acatctgttc gtgaggacca aaggattctt 360

gccagtgggtg tgcatgttgt tgtgggcaca ccaggacgtg tgttttt 407

<210> 21463

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-E8

<400> 21463

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gatacgtgtc ccgcgcgtgc tccgccatct gcgctctcat gccatcctt acgctgtact 120

atggacgcat ggatgttact gtggcatttt ctgcattcgt tattgccata gcattgcttt 180

tacaaagagg aaatcctcgt tttgctcagc taaccagttc agtttttggg ttatttttact 240

gtggctatct accttctttc tgggttaagc tccggtcagg attagctgcc cctgccttaa 300

atacaagtat agcataccgt tggccaattc ttctgggtgg acaagctcac tggacagttg 360

gacttgtagc aaccttgatg gctattagta gcatcattgc tgctgataca tctgctttcc 420

tttgtggaaa gggcattggt cgtaccctt tgact 455

<210> 21464

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D2

<400> 21464

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aggtggaccc ctgcaggtg gtcgaggtct tcgtccgcgt gacgggcggc gaggtcggcg 120
 cggcgtcgtc gctggcgccc aagatcggcc cgctcggcct ctccccgaag aagatcggcg 180
 aggacatcgc caaggagacc gccagggact ggaagggcct gcgcgtcacc gtgaagctca 240
 cgggtgcagaa ccggcaggcc aaggtctccg tcgtcccttc cagcgccgcc cttgtcatca 300
 aggcgctcaa ggagcccag cgggaccgga agaaggtcaa gaaca 345

<210> 21465
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D3

<400> 21465

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 agtcgagtac cctgaaaatg tacacttgat cagaggaaat catgaagctg ctgacatcaa 120
 tgcccttttt ggcttccgcc ttgaatgcat tgagagaatg ggtgaaagtg atggaatatg 180
 ggcttggaca agattcaatc aactgttcaa ttatctccca ctgcgtgcc ttagatagaaaa 240
 gaaaataatc tgcattgatg gaggcattag aaggtcaata aacacagtgg agcaaattga 300
 gaaacttgag aggcctatca caatggatgt tggttccatt gtcctcatgg acctgctatg 360
 gtctgaccc acagaaaatg ataattgtgg aggggtt 397

<210> 21466
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-D4

<400> 21466

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 aggtcgtgtg cgcgtggatg tgtgcgtaga agggatgaag attacggcgc tcctgggtgt 120
 gaagccgtcg acctccggag ccgggagctc ctgcgtccgc ggcgagtcgg gcccgaggc 180
 ggtggtgctc gcgaacgcga tagacgtcag ccacttcggc tatttccagc gcagcgccgc 240
 ccgcgagttc atcgtctttg ttgcccgcac cgctcgtcag cgcacccagc caggccagcg 300

gcagtcgctc cagcacgaag aatacaaggt ccactccac aatagagatg ggctttgggc 360
 tgttgcatte atggatgatc aatatnctgt accgagtgc ttttctcttc tgaatcaggt 420
 tcttgatgag 430

<210> 21467
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-038-Q1-K1-D5
 <400> 21467

atccccaagc aaacaaacag ggtagaggga gaggagagga gaggagagga gaggttgggt 60
 ctgggacacc atgggtccga tgaagctgta cggggcggtg atgtcgtgga acgtgacgag 120
 gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgcca tcaacttcgt 180
 caccgtcgag cacaagagcc gcgagcacct cgtccgcaac ctgtttggtc aggttccagc 240
 tctgcaggat ggtgacttgt acctcttcga atcacgagca atctgcaagt acgtgctcg 300
 cataaacaag ccagagctgt tgagggaagg aaacctctat gatgcagcaa tggtgatgt 360
 tttcatcgag gtggaggc 378

<210> 21468
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-038-Q1-K1-D6
 <400> 21468

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 ggtgtacca gacttcaaaa taaaggttgt tggacattca ctgggaggtg gtacaactgc 120
 tctgttgaca tacgttctga gggaacataa ggagtttgcc tctactactt gtctggcatt 180
 tgctccagct gcatgtatga catggaaact ggcagagtca agagtgcatt ttatcactac 240
 agtcatcaac ggagctgatc tggttccaac attttctgct gcgtcagtag atgatcttcg 300
 ttcaaagggt acagcgtcgg cttggctaaa tgatctnctg caccaaattg aacaaaccag 360

aatcctaagc actttttatc gttctgcatc aggcttggga tcccggcttt catcta 416

<210> 21469

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D7

<400> 21469

cttttgccctt tcgcacactt taacttactt tcttttctct tatgtcaggt ccctcaaaat 60

gtgcacttga tcatatgaaa tcatgaatct gctgacatca atgccctttt tggttcctc 120

cttgaatgca tcgatagaat gattgaaagt gatggaatat tatcttgtag aacattcaat 180

caactactca attatcttcc actcgtgcc atgatagaaa agaaaataat cttcatgcat 240

ctaggcataa taaggtcgat aaacacaact tagcaaattg acaaac 286

<210> 21470

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-D8

<400> 21470

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gatccgttgt tcagtgtata tgggaacgtg caggagagtt ttttctgca atgaagaatg 120

tttcttttga tattgatcag aatactcaaa tcagaatagg gcatcgtcca tacatgcctg 180

atggaaagcc agttattgac tttattccta atctctcaaa tattttgatt gcaactggac 240

acgaaggaag tggacttact ttggcactag gcaactgctga aatggtcact gatatgattc 300

ttgggaaatc ctgaaaagtg agctactcac cttttttcca tcaaacgcag attttcagga 360

tgatcgntta tccggaaacc ctgcttcagc ttttcaagtg acaaactacc gtcctttgtt 420

ttgtccattg gatggaacat ctctttgaat 450

<210> 21471

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D9

<400> 21471

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ttaatatatt taatacttca aatacaaaata aatctcactc aatactatac tataacttatac 180
atcattctat aaacacactt aattacccta cactaatcca cacaactact attactaatt 240
acatacacta acaatattta ccaactagtt aacttcatca cttataaaact tccaatctt 299

<210> 21472

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-E10

<400> 21472

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tgtttaaata ttacagttgg taccataaat cactatcccc tcttcactcc atcttctact 120
tcgctacaaa cacttatect tcactacact ttcattacca ctatctatca ctcaatgctt 180
accacttata ctaccaaccc tacatctcaa tatgaaacta atctaattctt ccctacacaa 240
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ca 302

<210> 21473

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-E11

<400> 21473

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tctcgtatat gcactgcagc tttgcattat tattcttgtc agaaaagcta ttttaagcta 180
tcagcttgaa actttttttt taaaaaaaag aaagcttgaa acatgtttgg aagcttaaat 240

cataagttca gatcatttaa gtttggattt catgttttgc tagtcatttt taatctgtaa 300
 agttgttcag aaaaactaca acccgaatcc aaaacagata taacttgttt tcaccagata 360
 caactttctc catagttctc ttcaaaaggg caaacatgtt atgaaaaa 408

<210> 21474
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-038-Q1-K1-E12
 <400> 21474

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 acgtgtcctt ggacgccgac ttcaggcgcg gtcgccgact tcggcttccc aagctgggtcc 180
 cggacgggcg gacgcacgta ccaccaagta aaggcacgct gggctacctg cgccggatac 240
 gcgatgctcg ggaaggcctc nagagctgna cgtcttcact tcgggtcacg ctgctggagc 300
 tggccagcgg gaggaggccc gtggagaagc tgagccccac cagagcgcg aagcagaccg 360
 tgacggagtg ggcgctcccg ctggccccg 388

<210> 21475
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-038-Q1-K1-E3
 <400> 21475

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 ccacgcagcc gctgctctgt ccgggtcctc tgttccgtcc gctccccgat cttccccaat 120
 ccgaccaaac cggcagagcc ggggggcggc gatggcgctg cgacgggcgc tcctcagatc 180
 ggcagagatc tctttcgaac gcaaggctgc aattgagtac attcattctt tatcaagggc 240
 acagcctgct cgttctctca atggtgctgg cctttgtcct gctagtagat cacttagcac 300
 ccaggccgtc actacgtcaa gcacaccaca gccttcgnct gcccacccg cttcagagaa 360

gactcacttt ggtggcctca aagacgagga tcgcattttc accaacctct atgggtctgca 420
 tgaccctttt ctg 433

<210> 21476
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-038-Q1-K1-E4
 <400> 21476

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 ggaagaaacc gcatcaccta cacagacaag tgtaccggtc aagatctgaa gaaataccac 180
 aacatggatg ccatcaatga cctggtagtg tcaggggtag cgtcaaggag agccaaccac 240
 ccaagtggac agaccgatgt aatcgtcttc tgtaacggcg ggttcgagaa tccaggcact 300
 gcgaaatcag aaggagagct gctttcccag cttgtggact cgcttgactt gtcgggagcc 360
 caatacac 368

<210> 21477
 <211> 482
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-038-Q1-K1-E5
 <400> 21477

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 tcaaattggag ttgacaccac gaaggtgcga aaaatttgcc aaacaattgc ctttgtgtca 180
 cctgcgaactt tcatgatgct ttcctctgtg gatcttggac tgccctccctg ggaaattggt 240
 gcttttctta caagtgggtg agcactctcc agcttcgcat tgtcagggtt ttattgcaca 300
 catcaagaca tctctagtga atatgcaagc attctcctgg gaatcacaaa cactgtaggc 360
 gcggtgccag gaattgtagg cgttgcactc acatgctttc ttcttgattc aactcattct 420
 tggagtatat cactctttgc gccttctatc atcttttact taacttggac tgttgaatgg 480

gt

482

<210> 21478
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-E7

<400> 21478

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gaatgaactc atccgcatac gtggcgatgg tggtgactgg agctggaaaag gcggcagcgg 120
tgcagaaggc gctctcagac aagcaaacct cgtcagacct gctgcctgtt gagatggctg 180
tgctgcaaga tggagaattc acctgggttca ctgataaggc agcgggtgtcc ttgctgcaga 240
acaagtagag tcccatggta accttggctc gaagccattt tagctcataa aataaaagat 300
ccaggggcct gcgtgcatag ctgcattcgt ccttcaggat ttcgtgtaac ggaaactcga 360
tccctttatg taatgtgtgt tgttcggagt aatgttcaaa aactctattg gcttacggct 420
tttctg 426

<210> 21479
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-038-Q1-K1-D12

<400> 21479

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ggttgctgga ttggagggaa agatcgagtt acttgagaac aaacaggacg tggctaatac 120
tggtatctgg tatctctgcc aagtagcagg cggtttaaaa gatggaataa acaccagggtt 180
tttccaggaa accagtgaga agctgaagct ctcacattca gctcaacctg aaaacaagcc 240
agtgaagggg cttgaatttt tttcggaaag caccatggaa cagaaagtag ctgactccaa 300
accaattgcg gtgacagtcg acgctgagaa gcttgagaaa accgctgctg taatgggcac 360
cacagtgcac aggtctatca ggttctcata tcggaatgca ngccttgctt tgtgatc 417

<210> 21480
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-B4

 <400> 21480

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 cagacagaca ggggtgggctc gacggatgag catgtgtgag aaagatcaga atttgccatg 120
 gcgatactac ctgttccgcg acccttttgc tcctcccaac ggggtactact ggcctcctac 180
 cggttactgt gatggccact gctgtgacct ccatcattac ggtagagcat cacatccaga 240
 tgagactcag ttgcattctg ctcaactcgc atatgatatg tacaacccat cagaagcacc 300
 catgagcacc agcacgaaac agtatatg 328

<210> 21481
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-038-Q1-K1-B6

 <400> 21481

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 gtatgttata cctacagaga tgggtcaaag attgggtgac tgtgcaatgg ctggtataac 120
 tatacaacac aggggaagcct gtaaactcgat attgtctttt ctatctgatg tcattgacct 180
 tccaaactca tctgacgggg gacagtaccg taaagttatt aacacaatca tacttcaccg 240
 tggcgcaacc cttactagaa taatgattgc tgccttaaca ggggcgctac catctggctg 300
 tctggaggag gtttcttatg gtctgcttgc acttagcaga gtctgtggtg agaacatgct 360
 gaactgggca gggaaagcat taatcttata ccgncacaag cactaacaga tgcagaacgt 420
 ttgcgcttct tcaacaccat atctgatgct 450

<210> 21482
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-038-Q1-K1-B8

<400> 21482

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cagggggngg ttcttgacaga ggcgcagctc aaccagtagc tggcattttc attcagggcg 120
atgcaaaatc ctttagtctc tgggaatttg ttctagctga tttttaggct tccccaaatt 180
gttttgccgg caggcgcggg cgtttcagat tgcttggtca ttcttggtgc ttgcccggga 240
gggtgttccca gaaccattct tgggctttct tgtgtccgtt tgtgcataag gaagtttttg 300
ttctgtgaga agcttctttt gtaaaacatg cagtgccttc tgatgttggg tgggaatggga 360
tgctcgctg ccttccgaag ctgtcttaa 389

<210> 21483
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-B9

<400> 21483

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agcagatttt attcttgggc gctgctttat tgaggtggaa aacagggttc ggggtaacag 120
cttccctggt attgttgcaa gttcaagtgt ttgccaggag ttgagaagtc tagaagtggg 180
gcttgaggat tcacaggttc ttgatgtttc ttcggatggt cagattcatg actgtaggca 240
gtcaaaaacg agggttcaag ttctgcactt ccttaatgaa ctcggtggc tctttcagag 300
ggcttctgcc tgtacattgt ccaccagacc tgatgtgtct gatttggatt tgactcagtt 360
ttcaatcaca cggttcaaat atcttttact gttctctagc gagcgttg 409

<210> 21484
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C1

<400> 21484

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agccattgct ttcgtcctta ctgcagtgtc cgttttgggt gtttggtgaa atctgtcgct 120
atcttcgtcg actccagttc gtcgtccatt tcttaaagtt caaaaaggcc tgctttgtcc 180
ccatttttct tcccgtccc aaggtagctg attgcagcag atacgacttc ctctgcttcg 240
gatctccttc aatcgtcac ttccacttcg cgttttcttc ttcgtactca tatggctttg 300
tctgcagcaa tgctttacgg gtcgcg 326

<210> 21485

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C10

<400> 21485

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tcgcggggcac agagcttgac agacacgaat gtacgttcat tgtctccatc caatggtaac 120
accatgcaaa acacactgag gccgtttctc tcagaagcag tttctcacct caatatgccg 180
aggcccaactg cgatacctgt cgcagaccca tggctcgtcg agcgtgtcgc ggtggagtct 240
ctgcttcctt ctcggtctca ggtttcatat cagatggaac aattggaccc tgcaccagct 300
agtatacctc atagctctgc gttggcacca cttaccggat gaggggtgctt ggttgaccaa 360
aatgtgaact ctgatactca aaatcatctc 390

<210> 21486

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C11

<400> 21486

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agctggcgcg gccggcgggc cagaaaggag cggtgccctt gttctaccga agggccctca 120
aggacaccct aaattggccc gtcaaccgca acttttttta ccagaaccg tcgaatttcc 180
ggaacaagtt caaggccaac cgaccctga ataacctgaa cttggtc 227

<210> 21487
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-038-Q1-K1-C12

 <400> 21487

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ggaggacgcc gctgcacgcc gcgagcgtct cgcgcacctc cgtgccgcca aggacctcct  180
ctccaccccc gacggcgccc caacccttc caccgacgga gaacaccaa atggcaacca  240
tgagatggca gaagagccag aattaccagg tcctcaggat gcacctggtg aagctggtaa  300
agaagatggt agccccactg aagaggccga agaggttgaa aatgatggtg agcttccagc  360
catgaaattc agaaactacc tttcccatga tgagcaac                               398
  
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<210> 21488
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-038-Q1-K1-C3

 <400> 21488

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ccgcccgtgc ccgtcgactc gtcgttcttg ccggccgtgc cccacctacg gcctctcctc  180
ctgcacgggg atcggatact ccacatgctg cgcgatggtg ctgtgggtct tcggctactg  240
ctccctcatc tggaaccccg gctttgactt ctacgacgaa atcctcggct tcatcaaggg  300
ctacaagcgc acctttaatc tcgcttgcat tgaccacata ggcacaccgg agcattctgc  360
gaggacctgc acgcttgaaa ccgac                                           385
  
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<210> 21489
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C4

<400> 21489

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cgtcgaatcc gacgccgatt tcttcgagga ggactacgac gaggatggcg aggaggaata 180
ccaagaggag gaggagctgg actggccggc ggctgcgggc gcagaacggg agcgggatgca 240
gtccgcgtta cggaggctgt catccgaccc cgtgggcata cgcgtccacg acgtgatcat 300
caagggcaac accaagacgc atgacgagct catcgaggcg gatgtcg 347

<210> 21490

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-C6

<400> 21490

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tcatgtcagg cttctcgctt ctgatcaacg agtcgagctt gaccggagag agtgagccag 180
ttgccgtcaa cgttgagtac ccattccttt tgtcaggggc gaaggtgcag gacggttctt 240
gcaaaatgct cgtcacgaca gtcggcatga ggactcagtg ggggaagctg atggccactc 300
tcagcgaagg tggatgatgac gagacacat tgcangtcaa gctgaatggt gtggtcacca 360
tcatcggtta gataggactt atctttgcag tggtcacatt cgaagtgtc acccaagcct 420
gttcggctca agatca 436

<210> 21491

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C7

<400> 21491

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gactttctcc tctacgtgct cgacctcccc tactttctca agtagaaatc atcaaagatg 120
cgtatatata tagctccggc cgatcctcct ctctagctgc atggtatgta agtgggtgtgg 180
tccttgtttc atttcactcc agcggtgatc agcgccgtgt ataaatgtaa ttcctctgct 240
ttgcacatgg atggattgag atgtaacctg ttc 273

<210> 21492

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C8

<400> 21492

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ggagcctcca aaagctatgc gtggaggaat accaatatgc tttccgcagt tctccaactt 120
tgggaatctg gaaccacatg gatttgcaag gaataggaca tggagtgttg atgatgatcc 180
tccgccatth ccagtgccaa cctccaatag cgcttatgtt gacttgatcc tcaaacctac 240
tgaagatgat ttgaagatct ggcctcatag ttttgaatac cgactgaggg ttgcacttag 300
tcctgggtggg gatttgatgc taacttcacg tataagaaac actaatgcag acgggaagcc 360
attctctttc acttttgcac accacacata ct 392

<210> 21493

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-D10

<400> 21493

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ctcgactcgg tggacctctc cagcaaccag ctgacgggcg gcatcccgcc gtcgttcgcc 180
gacctgccc gctccggtc gctggacctc gggcacaacc agctgacggg cagcatcccg 240
gcggggctgg tgcaggggca gttccggtcg ctggtcctgt cgtacaacca gctgacgggc 300

ccgatccccg gcgacgacgc ggcgacgag atcaacaccg tggacctctc ccacaacaag 360
ctgacggggcg acccctccca cctgttc 387

<210> 21494
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-B3

<400> 21494

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tggcccgtcc cctcccgggc cgagctccct atcgccggat tctgtctgcg ggatggactc 120
cgacgtggag atgaacgccg ccagcgacga ggaggtgatg gacgatgagg attactacga 180
ctactgctac agcgacgtgg gtgacgacgg ccacggcggg agcgaggagg agctggtgcc 240
cgtggactac gacgagggcc ttgaggccga gggtagcgac gaggtggtgt ccagacgcga 300
gcagacattt gtggttctaa atgaagaagt tatactctgag cgtcaagagg aagatgtaag 360

<210> 21495
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-038-Q1-K1-D11

<400> 21495

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gaaggcgtg gactgggcca tcgacaacct gctccaccac ggggacaccc tcgtcgtcgt 180
ccacgtcctg caccacggcg cggaggagac caagcacacg ctttgggcca agtccggatc 240
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cccgttgcc gctggtgtct ggttcggttt tgggacggtc ttggctcgtc ggctccatct 360
gattcgctcg atccgtgggt ctgcttgct tcgatccccg cagcgggg 408

<210> 21496
<211> 466

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-H8
 <400> 21496

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agaagatctt caagaccaag tgcgcgcagt gccacacagt cgagaagggc gccgggcaca  180
agcaagggtcc aaacttgaat ggtctttttg ggaggcagtc ggttaccacc acaggctact  240
cctattccgc gggaaacaaa aacaaggctg tgatctggga ggagaacact ctgtatgact  300
acctgcttaa ccctaagaag tacattcctg gaaccaagat ggtcttccct gggctgaaga  360
agccgcagga acgtgctgat ctcatcgct acctgaagga agcaactgcg taatataatg  420
acancgcctt gccatgaaga gaaaatcggg ttgcagttta ataata                    466
  
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<210> 21497
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-038-Q1-K1-A11
 <400> 21497

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gtgtgccccat tagataacag tgagtgggag ttccagaaat atggccacta gttcctgggc  180
acctcatgt gatgttgggg cttacttcta gtgactgcta ccactcgagt gtattttttt  240
ctgccaaaca gctccatctt ttactgcttt ggatgcttgc atgtatcaca ggtcaattat  300
cactagtagt acgtccacct gggactgtat ttggattgtt cgttgagagg atagtagttc  360
cattttataa atgttatgtg gattttcat                    389
  
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<210> 21498
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A12

<400> 21498

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aatgggtaccg gccaaagtcaa ccaggccggc gtcgaccact acaacagggtt tatcgatgca 180
ctgctatcga aagggattga gccatacgtg accctgtacc actggggacct cccccaggcc 240
tctgaagaca ggtacaacgg atggctggac aggcagatag tgtacgactc gccgagtaacg 300
ccgagacat 309

<210> 21499

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-A2

<400> 21499

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caggctgttc aagagttgaa tggcaagatg ttcgatgata aggaactgta tggttgaaga 120
gcacagaaga agtctgaaag agagatggag ttgaaggaga aatttgaaaa gaatgttcaa 180
gaggtagctg agaagttcca aaacacaaac ttgtatttga agaacttaga ggagaacatt 240
gatgatgaga aattgcgtga actctttgct gagtatggca atattacttc ctgcaagggt 300
atgcggggatt cgaatggtgt cagcagaggt tctggatttg ttgctttcaa atctgctgaa 360
gatgcttacc gagctcttac ggagatgaat ggcaaaggt ttggngcaag cccctttatg 420
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<210> 21500

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A3

<400> 21500

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gcagggaggc tctgaagtc agtagtcgta tctggcagtg gcagcacagc gcaccatgga 180
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cccggtcgag ggcattcgct ttgtgatcga tagagaagag tgcttctcgc ataacgtgga 300
gtatgagggg gatactgtcc atgtatcctt cgtcgtcatc aaaggctgac acccctgggc 360
atta 364

<210> 21501
<211> 352
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-038-Q1-K1-A4
<400> 21501

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aggagcaccg gtcgggcgcg gaggtgcacg ttgggcacga gctgtgcgag cgcaagtcgc 180
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aggtgggcta caatcggtcg acgggggttcg tgtggctgcg gcaggcctgc ggcctgaccc 300
acaccttcgg gttcatcggc aagcaggtgt ggttcgacag ggaggtaacg gc 352

<210> 21502
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-038-Q1-K1-A5
<400> 21502

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caggtcgtc cactcgcgc agcagtcacg ccacagttgc ctactacagc acctgccaca 180
tacaatgacc ctggtaccat gcttgctgga ttgctatgag aagtaaccg aaggaatagt 240
gttttgatgt acatggcagt tatttaatac gaggatctaa catctccaca agcatcttgc 300

tgccaagacg tacacgtgga gcaaccaaga aagagctggc ggagtgtagt ctccatgagg 360
attctaaacc gagaaagagc ttagattctt tttgtgcggg ttcaaggccc ccttcctctt 420
catg 424

<210> 21503
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A6

<400> 21503

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ggacaatgcc gcgccatcgg gcgctgctcc tgcccctgct actgctggcc tcgccggcgg 120
ccacgcgcct ggcgtccgcc gtctgcgcag gcgagaagtt cccggcgggg cgtgcgtacg 180
cgtcgtgcga ggacctgccg aagctggggc cgtcgtgcga ctggacgtac gacgcgtcca 240
agagctccct gtcggtggcg ttctgtggctg cgcccgcaga aggtggcgga tggatggcgt 300
ggggcctgaa c 311

<210> 21504
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A7

<400> 21504

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ggcgcctgct atcccgtacg cgacggggag ggccagcgcg ctccccgcgt cgtgctgcag 180
cggcgtcaag agcctcaaca gcgcggcgcg gaccagcgcg gaccgccagg cggcgtgccg 240
ctgcctcaag agcctcgcca acagcgtcaa gagcgtcaac atgggcaccg tcgccaccat 300
ccccggcaag tgcggcgtct ccgtcggatt cccatcagca tgtccaccga 350

<210> 21505
<211> 269

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A8

<400> 21505

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 ctggtgaacc tctggttgat gattggagct gcctcaagta catagtctgc acttttgagg 180
 cgcgatgcgg gtccttggcg cactatggga tgaagcacat gcgatccttc gcgaacatgt 240
 gcaacgctgg catccttcct gaagcagtg 269

<210> 21506
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A9

<400> 21506

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 caggagttgt tatgatgagg gtaagcgtgt agcagagacg ctgatgttcg actatcacag 180
 gcagcatggc attgaaatcc gaattgccag gatcttcaac acctatgggc caaggatgaa 240
 cattgacgat ggccgtgttg ttagcaactt cattgctcag gctgtgctg gcgaaccct 300
 tactgtccag aagccaagaa cacagactag gagcttttgc tatgtcgccg atatggttga 360
 tggctcttatt aggctgatga acggaacaa cactggaccg attaacctt 409

<210> 21507
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-B1

<400> 21507

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cttgaaaact tcgctgtcca agaaagagtc tgagaaagac agccttgcct ctcaggttct 180
gaagctgaga agatccgttg aaacccggga aagggcgaaa gcaaatggtc aaatttcaga 240
tgtgaaggac aatcagcatg ctaataacaa ggcgaccaag cacaataccg gctccactgg 300
gagcattgct gcgctgccag gcaccaacag acaaggcgaa aacggtgact gcaatgggtcc 360
tgacatgagg aactccactg ac 382

<210> 21508
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-038-Q1-K1-B10

<400> 21508
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gcgtcatcaa cgggatcaga gatgagcaag gaaatcgatg tccagcttag tccagaggag 120
aaagaaagtt tagatgagat catcaaggaa gctgagagcg acttggagtc tgaggaagtc 180
ctggatcaat cccttgccat tgttgccaag aatgaagggt tggacaagga cacaactaca 240
aaactcaciaa ttacactgt aggtggtgtt ttgaagaatc tgacagaggg ccccttgagt 300
gttatggata agcacatata tgcaagacac actgtcaaac catttcccag cctgattgaa 360
gctggaaaag acttgggtgnt tcatcatctc aaatatattt gc 402

<210> 21509
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-B11

<400> 21509
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ggctcccagg ctacaggggg agacgcagag gagacagctg ctgcctggct gagacgatgg 120
ccggaggcgg cgaccactcc cagacgaacg gaggccacgt cgaccagagg gccttggagg 180
agggcaggaa ggaggagttc gctgaccagg gctgcgccgc catggtcgct tccgtcccat 240

ttatccagaa gatcatcgcg gagatcttcg gcacctactt cctgatgttc gcggggtgcg 300
gcgcggtgac gatcaacgcg agcaagaacg ggcagatcac gttcccgggc gtggcgatcg 360
tgtggaggct agcggtgatg gtgatggtgt acgccgtggg ccacat 406

<210> 21510
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-038-Q1-K1-B12
<400> 21510

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gatagcgggt tcagacattg tcgaggagtt caagaagcat gacaggaagc ctgataagta 120
catcaaacat tggtcagctg ttaaaccaaa gactggggtc ccatatacaa ttgacattgg 180
atatgaacgc tttcttgggc cagagatctt cttcaatect gagatttact ctgccgattt 240
ctccactcct ttgcccaggt tgattgacaa ctgtgttcag tctgcaccaa ttgacacaag 300
gagagctctg tacaagaata tagtattatc tgggtggatct accatgttta aagacttcca 360
caagagactc caaactgata taaagaagat agtggatgac cgtgttggcc 410

<210> 21511
<211> 477
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-037-Q1-K1-H7
<400> 21511

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cctcccgcag ccggcgcgca gatggcaccc aaggcggaga agaagccggt ggccaagaag 120
cccgcggagg aggagccgcg gacagagaag gtggagaagg ctccggcggg gaagaagccc 180
aaggccgaga agcgctccc gccgggcaag tccaaggagg gcggcgaggg caagaagggg 240
aaaaagaagg cgaagaagtc cgtggagacc tacaagatct acatcttcaa ggtgctgaag 300
caggtgcacc ccgacatcgg catctcgtcc aaggccatgt ccatcatgaa ctcttcatc 360
aacgacatct tcgagaagct cgcggccgag tccgccaagc tggcgcgcta caacaagaag 420

cccaccatca ccttccgga gatccagacc tcggtgcgcc tcgtntccc cgcgagc 477

<210> 21512
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-G1

<400> 21512

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ggagctggtg gtggaggtca agtccccggc tgacaagctg tgggcggcgc tgcgtgactc 120
gacggagctg ttccccaaga tcttccccga gcagtacaag agcatcgaga ccgtcgaggg 180
cgacggcaag tcggccggca ccgtccgcct cctcaagtac accgagggcg tgccgatgct 240
gacgttcgcc aaggagaagc ttgagacggc ggacgacgag aacaaggtgg tgctgtacag 300
cgtggtggac ggcgagctgg cggacttcta ccagaacttc aagatcacgc tg 352

<210> 21513
<211> 277
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-037-Q1-K1-G10

<400> 21513

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tggccatgga aggagaatca ggcgccccgg atcgccgcc agcctccatg gaaagggagt 120
cctctcgatc tgtgtccgcg ctgtccatgg aagaaacctt gctgtcagcg cgtctccact 180
tggtgagtga tctttgggta gtcttgctat gaacaacaat tccgtggtgc tgggtggacct 240
gtggaagggc ttgcggtcac taaagtgtan gtggatg 277

<210> 21514
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-G11

<400> 21514

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ggccgtcctc cttgagacgt tgggtccccg agtgctctcg gtgagctact ttgtttcgat 120
ttatcaggaa atccgtttgc ttcattgttg gcaggctcat atctgattgc tggattcggc 180
aaaccgcggt tggatcctgt atcggttagt ccttgccctgc aaggttcttg ttgttttgtt 240
ttggtggctg agcatcgcat gttctgcttc tggatccaga tctggagaaa tcgcgaagtc 300
gtcgtcgctc ggttcggagc ggatctgagg cgacgataga tggaagcggc gggatctctc 360
ggtctgcagt cctgctccac ctcatggat gatgtctctg cgctgataat tattggatca 420

<210> 21515

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-G12

<400> 21515

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cgtggttccg tgggcacagc gcgagggggc cgtcgccttc ttcgacgacc ggcctcagca 120
ggaggccgcc cagcgtggcc tggggagccg gcgcaaggcc gtgcaggccg taaagtggct 180
gccgtacgcc accaaattcc gctatgcctt cgccaggagc atggctcgaca agccacactg 240
ctagctgctt cgctcgcac tcctcgcac gcagctgttg ccgtctggcc ccgtttccgc 300
tggataaaga catctgatcg ctgtggcgca gccattctga tggctatatg taaatgtctc 360
gttgatgc 368

<210> 21516

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-G3

<400> 21516

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tcggctgggg gaccatctgg ggcagggtcg acaccacctg atacgacttg ccccggtggtg 120

agcgcaacat gcggctccct ggccttatca caaccctaaa aatgtgcagc actatacggg 180
gccactttac ccaccatcgg gggcctatac atcggtttt accagttcgt acaaagccag 240
cccaaaaagc gtcactttta aaagggaccc ctgtgcgctt tttttcccaa 290

<210> 21517
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-037-Q1-K1-G5
<400> 21517

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ggccccacgc tgccgcggcg aggcctccgg ctcaagtttta ttgtgtgggc ggcggcgagg 120
cacgcggcgg ccatgggatc ccaccgcgac ggcggtgtag aatgatagca gctgtaatac 180
actactctgt actgtgatgt gcaagtagat agtactagtt actagttagc cagtgtgaagg 240
ttcctccgtg taacaagtca tcagcgtgtg atcctcttcg tctgttcac c aatatacaca 300
tttct 305

<210> 21518
<211> 370
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-037-Q1-K1-G6
<400> 21518

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tcctacacag gcttggccgg caaggcagtg aacgtgccgt cgtctctctt cggcgaggcc 120
cgcgtgacga tgcgcaagac ggcggcgaag gcaaagccgg cggcgagctc cggcagccc 180
tggtacggcc ccgaccgctg gctctacctg ggcccgtgt cgggcgcgcc cccgagctac 240
ctgacgggag agttcccggg cgactacggc tgggacaccg cggggctgtc ggcggaaccc 300
gagacgttcg ccaagaaccc ggagcctgag gtcattccact cncgctgggc catgctgggc 360
gcgttgggct 370

<210> 21519
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-G7

 <400> 21519

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acgtgcgcgc ggactacaac ggcagggggc agcaggtgac gtctctgacg ctgacgcagc  180
agtccggcgg cgccttcagc tcgcggcaga agtacctgta cggggagttc agcatccaga  240
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acgggccccg gcacgacgag atcgacatgg agttcatggg caacgccagc gggcagcccc  360
tggtgctgaa caccaacgtg tgggccaacg gcgacggcaa gaatgagcac cagttcta   418
  
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 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-G8

 <400> 21520

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cgcgcagatc ttctcggagg gcgggctgga ctacctgggg aacccaacc tggtgcacgc  180
acagagcatc ctggccatct gggcgtgcc a ggtggtgctc atgggcttcg tcgagggcta  240
ccgcgtcggc ggcgggccgc tcggggaagg gctcgacaag gtgtaccccg gcggcgcctt  300
cgaccgctg ggctcgcgc acgaccgga caccgncgnc gagctcaagg tgaaggagct  360
caagaaacgg cgctttgcc tgttctccat g                                     391
  
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<210> 21521
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-G9

<400> 21521

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cggctcgagca tctgaacaat cgacagtcaa tgcttgaaga agtagctgat ttgaacctgt 120
caaattttcta tggagaagtt tgtatccac gccagctggc cattacgaaa gatccatcct 180
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ttgttgatgg gacgtctaaa ggtcatgaac tatactttgc atatgacgag gcatccttgt 300
caatgcttga tccgcctctg gttctacagg aattcataaa ccatggcggg atcctcttta 360
aagtgtatat cattggtgaa acaatacaag ttgtccgcaa gttctctttt 410

<210> 21522

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-H11

<400> 21522

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aaatgaaaaa ttaacaaact atttac 86

<210> 21523

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-H12

<400> 21523

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ggggtgtttg acgtggagct gatgaagcac cagaacatcg aggaggagct ggtacagatg 120
ctgcagatag ccatggtgtg cactgccaag tcgccagacc ggcgcccgc gatggaggag 180
gtgatcagga tgattgaggg gctccgccag tccacctcgg agagccgcgc gtcttctgat 240
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cttgatcggg tgttggtgcc agttgcacct catttgattt gttagctaatt ttatttatga 360

ttgagttttct tgtaaaccgt ggtagcatc tgctgcattt ag 402

<210> 21524

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-H3

<400> 21524

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aattggaagc tgaagcacta tctgataagc gtatcatcaa cgcgaagacg ccaaatatga 180

gctgtaatgt tccccgtaga ccaccagacc ctactgctcg tatgccgaga cgtaaagctg 240

atgaatactc acgatagcga tagggcggag tcatagctat caaactgact gcgctgatct 300

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<210> 21525

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-H4

<400> 21525

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tctgtcggcg gtcgtggcct gcttggacct gccggcaccg gcccagggcg gaacttctac 180

caggacacag agatgacctg gggcgatggc cgcggaagg tagtggacgg cgggcgcggg 240

ctggacctga cgctggacct cacgttcggc tccgggttcc agtccaagag cgagtacctg 300

ttctgcaaga tcgacatgca catcaagctg gtgccaggca acttcgtggc acggtcacca 360

c 361

<210> 21526

<211> 311

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-H5

<400> 21526

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tggcatccgc tcccgctctc cacggccgac ctttcccttc cgctcaccct tcccaccggc 180

cagaccttcc tttggcgccg caccttcttc tccccgtcc gtttcaccgg tgccgtgggg 240

tcccacctcg tctccctctt ccacctgccc gactccgacg atggccgnet cgcattcctn 300

ctncacaacg a 311

<210> 21527

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-H6

<400> 21527

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gtcacgagtt tttatgatga aggtaaactt ctatcatata ctcttatggt cgactatcac 180

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aacat 245

<210> 21528

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F9

<400> 21528

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gaggcgaaga agtccgccgt ggcgcctgct gggaaggctg cccagcctgc ggcgaccacc 180

aagttccccga ccaagccccgc tectccctcg cagacgggttc gggatgcacg cggcgggtggc 240
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<210> 21529
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-037-Q1-K1-E5

<400> 21529

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caagccggta tccaggtcgg aaacgcgtgc tgggagctgt actgccttga gcatggcatt 180
caagctgacg gtcagatgcc cggtgacaag accattgacg gaggtgatga tgcttttaac 240
acctttctca gtgagactgg tgctgggaag cacgtgcccc gtgctgtttt tgctgacctt 300
gaacccaactg tcatcgatga tgtgagaact ggcacctacc gncagctctt ccaccctgag 360
cagctcatca atgcgaagga gga 383

<210> 21530
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-E6

<400> 21530

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catcttacca ccacccttta ctacttcggc tttccatgaa gaggttgctc ttatgcacct 180
tccgatacaa tcattctctc attcttttgt agatttcacg tttgagctgc tgattctcac 240
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<210> 21531
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-E7

<400> 21531

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ggagagaaca ctagcggttcc ctcaccaggg cgggcgtcca tcccagcagc catggcgatg 120
gcgtagaaga tggcgacgga ggggatgaac gtgaaggagg agtgccagcg ctgttcatgg 180
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tgcccggcga cgactgccgc tacgccgtct tcgacttcga cttegtcact gttgacaact 360
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<210> 21532
 <211> 315
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-E8

<400> 21532

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ttttcatcat tctggatact aaaaaagggt agcgtaagac caaactagg ctggacagta 120
aagctgacct tcattttaca tccatcatga ctcaagcttt caactacatt tttctcacat 180
caactgaact ttcttaactc ctctctcttc ttaaaaactc attattttga ttctgtcgc 240
aaggactagc ttcatacatt atatgcttct tgtcgccact atccgatgac tacaatataa 300
ttctgttcac tttct 315
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<210> 21533
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-E9

<400> 21533

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 aaggcctgcg agcgatgggc atcgctgcacg tcgtctccga gttctgctcc ttgccgagga 180
 ctgcgccgca tctcaagaag aggaagcagt tccagacggg ggagatgaag gtgcgcatcg 240
 actgcgaagg gtgcgagcgc aaggtgaaga agggcgtgga gggcatgaaa ggcgtgagct 300
 ccgtggagggt ggcggccaag cagaacaagg tgacggtcac gggctacgtg gacgccacca 360
 aggtcatgc 369

<210> 21534
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-F1

<400> 21534

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 ggaaggggaag gcaagatgta caccgcgagg aagaagatcc agaaggagaa ggtcttgag 120
 cccttcgagt tcgaggactc cgttgccag gctttctttg atctggagaa cggaaccag 180
 gagtcaaga ggcacctcaa ggacctgtac atcaacaatg ctatccagat ggatgttacc 240
 gggagtagga aggctgttgt cattcacgtc ccataccgcc tgcgcaaggc cttcaggaag 300
 atccatgtca gactcgtcag ggagctggag aagaaattca gcggcaagga tgtggttaatt 360
 gttgctacac ggaagattgt gaggccacc aagaagggtt cagctgttct gcgccctcgc 420
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<210> 21535
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F10

<400> 21535

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gggcatgcc a tgaggacctg gctgtagtcg agtagttctc tgatatgcgt caccctcttg 120

actgttgctg gtagatagct tcttgctgg gtgcgtctgt aaaggtgccg attgtgcttt 180

cgatttctca gaattttggg gatcagaaca acccttcgta actctttgcc ctgttgtagc 240

aaactaggtt agatggcaaa attgctgaaa ttttcttgta gctgttgaca tgtatggttt 300

cgttcgtatg gatgtgaaaa tggtagctca gttttggagt ttc 343

<210> 21536

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F11

<400> 21536

ggatcatcag tcccgagcgg atcgaggcgc acgccaagca ctggaaggat gctgactacc 60

tgggcttgaa cacctacatg tggtagatga acaacgccga tatcaaagtc aggagacca 120

attcgaggta ctggtctgac aacgatgagg tttccaggat tgaggcgtag gccgtgtgt 180

tcaagacatg gtctgattgg ctcaatgaca acatcgatcc tgcccgaacg tccatcttct 240

tcatgacgat ttctctctct cacctcagcc cacagaattg gggaaacccg gacggtagca 300

aatggtgtag aaagacgctt ccatatcaga actaccggcc acattggat cttaacatg 360

acatgcggct gtattactta atggtcaatg t 391

<210> 21537

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-F12

<400> 21537

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gctgctgctg gcgggcgggg ccgggacggc gtcggcgggc gtgagctgcg gcgaggtgac 180
 gtcgtcggtg gcgcctgccc tcgggtacgc gatgggcagc gcggcgctcg cctccgcggc 240
 gtgctgcagc ggggtgctct cgtcaacag ccgcgcgtcg tcggcgggcg accggcaggc 300
 cacctgcaac tgcccaaga gcatgacggg ccggcttcgc gggggcgtca gcatggccaa 360
 cgccgncaac atccccggca agtg 384

<210> 21538
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F2

<400> 21538

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 ggatagcgtg agttctccgc tattcttgag agtgaagttg accttgattt tgcattccgtc 120
 atggttcagg ctttgaattt gattttgctc acatcaactg aacttggtga gtcctgctct 180
 cttcttaaga agtcgttagt ggattcctgt ggcaaggact tgtttcagtc attatatgct 240
 tcgtggcgcc actctccgat ggctacaata agtttgtgtt tacttgctca ggcatcacgt 300
 catgcgagct gtgttattca gtcgctggga gaagaagaca taaatgtgaa atttttggtt 360
 cagttagata aattgatccg tctcttagag acttcaatat ttgcttactt gcgtttgcag 420
 cttcttgagc cctggaagca cacctggctt cttgaaact 459

<210> 21539
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F3

<400> 21539

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 cttccgtggt tatggcaggc gtaatggtga gcgcaggagg aagtctgtcc gtggttgcatt 120
 cgtgagccaa gacctatctg ttatcaactt ggtgattgtg aagaagggtg agaattgatct 180
 gcctggtctg actgacactg agaagccaag gatgaggggt cccaagaggg cctccaagat 240

cagaaagctg ttcaacctta acaaggatga tgatgtacgc aagtacgtga acacataccg 300
caggacattc actaccaaga acggcaagaa ggtcagcaag gcacctaaga tccaacggct 360
tgtgacaccc ttgacccttc agaggaagcg tgctagaatc gctgacaaga agaagaggat 420
aactaagaag aagtctgagg ctgctgagta ccagaagct 459

<210> 21540
<211> 378
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-037-Q1-K1-F4
<400> 21540

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gggcagaagc agaagcggcg ggagctgcag ctgagccaga tgcgccggga catcgccaag 120
ctcctagagg ccggccagga ggccactgcc cggatcaggg tggagcacat catccgggag 180
gagaacatga tggccgcgca ggagatcctc gagctcttct gcgagctcat cgcggttcgc 240
ctgccccatca tcgaggccca aaaggagtgt cctattgatc tcaaagaagc aatatcaagt 300
gtctggtttg ccgctccaag atgtgcagat ctacctgaac tgatgcangt tcaaagatg 360
tttgcaacta aatatggg 378

<210> 21541
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-037-Q1-K1-F5
<400> 21541

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gggggaatgt aatgcaagat gtgcacggcg aggaagaaga tccataatga gaagggctctt 120
gagccctccg agttcgagga ctccgttgcc caggctttct ttgatctgga taactggaac 180
caggagctca agagcgacct caaggacctg tacatcaaca atgctatcca tatggatgtt 240
accggcagta ggaaggctgt tgtcattcac gttccatacc gtctgcgcaa ggccttcatg 300
aagatccatg tcagactcgt caaggagctg gagaaaaaat tcatcggcaa ggatgtggta 360

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372

<210> 21542
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F6

<400> 21542

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ggaagcgtct tctcgaatgg gcctattgcc ttactctcgg gtcttaatcc tcggccactg 180
agtttagttg cacacttctt tgctgtcgt atctacgggtg tcggtcgcta gatgctccct 240
cttgcttcac ctaaaccgat gtggattgga gccaggctga tgtctagtgc atgcggcatc 300
atacttgcta tcatcaaagc ttaaggcgtg ag 332

<210> 21543
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F7

<400> 21543

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accggctgat gctctgctag ctattcgtac ttgaggtgat ccaaaatgtt cgagcgacaa 180
ctccaatgct gcacatcatg acaagctatg tcaaggcgta caagcgtgaa gaaccgatct 240
gcatcttggg catgaagtta cctacacact acatacgaag aaagctcact gagtccagac 300
tgatatacta ct 312

<210> 21544
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-F8

<400> 21544

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ataggaaaga agtagatcat gcaccacta gtgatcactt cgtctagtgt ccctccgttc 120

aatgtcgtcg tcgtcgtcgt gtaccttacg tgacatgctg tagcacgtac gctagcagag 180

cagcacctca atgtccttgg gtttgctttg ctggctctct gttttcgtct tgtgttgctt 240

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<210> 21545

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-E4

<400> 21545

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gggtggtgga cgacgggtcg gcagcccgta agcgcagctc ttctgcgatg gacacagctg 120

acgacgaccc gttacgacgg tgggtttgca ggaggagggt gctcttctgg accttgatgat 180

gcgatgattc ttctattctt ttgtcgggtg cccgtttgag ctgctgattc tgacagccct 240

ggtcggcgtc catggtcggg gattctctta tgctgctgct gctgctacca cctgttgata 300

tttttaggtg gtagatccag tacatgaggc tactaagtag ggctccggat catatgggat 360

ctatccttgt gctttgcgtc aaacttcttt gacctagaaa attttaaact tgggtggggt 420

cggttggtag gctgtgtttg tctataaaaa atga 454

<210> 21546

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-C7

<400> 21546

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gacctaatac cagggcagga tcattaatta tacctacttt agctgtactt tagattacac 120

attgtaacta cttgagttct tctccattgc tgtcaccatc gtctttttgt cagtacctga 180

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 caaagcactc ttcctgcacc ttcc 264

<210> 21547
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-C9

<400> 21547

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 gcttgaggaa gggcttgccc ggctcgaaag aagcaagaga tgggacacta gggagaggaa 180
 gacggctctc cagaacctgg aacagtcca ggacaaggca aagaaggaaa ggctgcggat 240
 ttggcagtac ggagatgttg aatcggacga ggacgagcag gccccgcctg caaggaagcc 300
 tggaggtcgt cggtagagac tgggcagtgt aaggctgcag tctggcatgc tatgaaagtt 360
 ttggacaacc acaaatgttg gactctgccg ggagttatag atgaagactt actgaagggt 420
 accgtattta ta 432

<210> 21548
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-D10

<400> 21548

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 tgtgcaggct ggagttctgt ctggcgatgt tagcgacatt gtacttcttg atgtgacccc 180
 cttgtcccta gggttggaga cactgggtgg tgtcatgacc aagattatcc cacggaatac 240
 aaccttgcc acctcaaagt cggaagtttt ctcaacagca gctgatggcc agactagtgt 300
 ggagatcaat gttctccaaa gagaaagaaa agttgtgaga gacaacaagt ctattggtag 360

c 361

<210> 21549
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-D11

 <400> 21549

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 gtgaaaggat ggatacttta aatttaaagg aatcttactt aaagggtgac catattatta 180
 tggaagggtt taagaacttt gattaaccta caagggtcca caaaacttat tatggttatt 240
 accttaaaga accatattgg gcaacttatg aatttgatca ctt 283

<210> 21550
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-D2

 <400> 21550

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 ggcgccgtgc ctcggttacg cgatgggcag cgcggcgctc ccctccgcgg cgtgctgcag 180
 cggggtgcgc tcgctcaaca gccgcgcgtc gtcggggcgc gaccggcagg ccacctgcaa 240
 ctgcctcaag agcatgacgg gccggctcgg cggcggcgctc agcatggcca acgccgncaa 300
 catccccggc aagtgcggcg tctccgtcag cgtgcccata agccccaacg tcgactggcc 360
 caacgatcaa ctgatcgatg gaaccatagt ggagggagct 400

<210> 21551
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-D3

<400> 21551

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cggtccccgc accggctcgc gtttctccgc ccccaagtcc aagcgtcgcc ccgaccccg 120

ctccgacaga agctcccacc ccgtcgccca cagaggcccc gaccccgctct cccacgctgg 180

cgcctacact cgcgccgttg agctcgggtg cggtgagccc gtcgctggcg ccggggcccc 240

cgctcgctca ggaggacgag tcggcggcgc caagctcgcg cactggcgctc gtcgcggccc 300

tggtggccgc cgggctcgtc gtcggcttgt tntaagaagt agagctcgcg cgtttattac 360

cgctatacgt ccgtaccgtt cctcgcacgg gtctctngtt ctctgttgg tgttctcatg 420

gattgatgca cgcacgaacc attcttgctg tacaacaca 459

<210> 21552

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-D5

<400> 21552

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ggcgtgtgtg accatacaga gccccatgcc gacacgatca ggcacgacaa ccgcatatac 120

cgcaaagact aactacgttg acgcaactgcc tggcactctg cagaatgcta ctagacgaat 180

aatcgcccat ggctgaacca tagatacaca tggagcatgc agctggactg tacatgcact 240

gaaatcaaat gcaacaacac tatcgccac aggaccatgg tgaaactctt gcacggaggg 300

ttcagcatca cgacttgtaa ctgcatggca cacca 335

<210> 21553

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-D7

<400> 21553

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agctagacac acgtgatagg ctctccactc acttcatcat ttctttcaac ctcaccatca 120

ctttccccgt cacaatacca ttactgagc tcttgattct tctaacacct tgttcatcca 180
cactagtctt aataaacacc 200

<210> 21554
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-037-Q1-K1-D8

<400> 21554

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ggcagaacgc gatgcgctca ggggtggtgg tgctgggcgc cgtggccttc ggctacctct 240
ccttccgcgt cggcttcaag cctacctcg accaggctca ggaggccatc gactccgccc 300
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<210> 21555
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-D9

<400> 21555

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tctataacct tcaccttata tatatactca tctacaatac tcaacctcaa tacattaact 180
tccacaaccc acatccctac attattccat tatcaccaaa actacactaa attcacaata 240
aatccccctt cacctaaaat tatccaaatc attttcaa 278

<210> 21556
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-E1

<400> 21556

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gcaagctagc taggacggcc gcgacaggct agccagccag ctggtagctc ctgcggacga 180
ggcgatggct ggcgccgacg tcgacgtcgg gacggagctc cggctcggcc tgccgggagg 240
aggcgccgcg gcggccaaga aggacaccat cgacctcaag ctgaagctgc ccaccgccgg 300
cattgaagga ggcgctgccg ccgccaggcc ggagccggga gccgaga 347

<210> 21557

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-E11

<400> 21557

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taattatgtg ttaccaatga cttgcaactg gagcccgtg ggatatatat atgtaagaac 360
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<210> 21558

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-E12

<400> 21558

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gctccacact aggctatgcg ttcttggggg gtcttacctt catgggtaaa aacgagatgc 120
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 ggaatgtgat tggggataga ggactggaag ttgttgccga tacatgcaag aagctacgaa 300
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<210> 21559
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-E2

<400> 21559

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 aaaagcccac gctccaccgn ctccagggtt cacgcgcggg tgctgggtctg cctcttcgag 240
 gaccctagca gtggggccacg ggtcctgctt acaaagcgcg ctttctnctt ctctnccac 300
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 acagc 365

<210> 21560
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 21560

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 ccgccaccac gagcgcgctc accgacgacg tgctcgcatg ggtgggtcttc aagatggaca 180
 tctcggaccc gtcggggcgc ctgcgcgacg ggaccgagga cgatgatcgt ccctgctcct 240

gcccggccgt tggtcgcgac gcgcgcacgg gccgcgtcac ctgcgtctct ctccccggcg 300
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 cactccccgc ga 372

<210> 21561
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B2

<400> 21561

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 ccgtatgcta tcgatatagt atatattatc tttccgattc ctctgatgct agcataccat 180
 atcatagtat gtcacgacac gtgatgaaca agagcagact aaatgagcaa aatgatattt 240
 tgctgtatc aatatatatt gcacgagata aaaataatac aaggttacaa ccatgattta 300
 tatcttgagc cttactccga ccctacgctt ctaaataaat atttaccttt gaatgaattt 360
 cacgaaaacc cat 373

<210> 21562
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B3

<400> 21562

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 tgactaatta ggaaagctag tggaagacaa ccttaccga aaggagcact tgcagtacag 180
 gaacatgctg atatagaggt tctcgggtca atcatgtaac gctggcttta tggagagttt 240
 tctcatttcc aaagacatgt ttcccataat gaatatattt gtcataaaa gatcaaatgc 300
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<210> 21563

<211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-037-Q1-K1-B4

 <400> 21563

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cgattcatcg acgcggccca cttctctgtc cccgcggggc agtacgcggt ggagctggtg 180
gccgggcggg agagcgccat cgcgcaggtc atccgcaccg tgcccaaccg cgcctacaac 240
ctgtcgttcg ccgtcggcga cgcgcggaac ggctgccacg gctctatgct tgtggaggcg 300
ttcgcgggca acgtcacgca gaaggcgccg ttcgattccg ccgggaaagg tgggttcaag 360
acggcggcgt tcaggttcgt ggcccgcggc gttcggaccc gnctcacctt ctacagctcc 420
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<210> 21564
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-B5

 <400> 21564

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cagctctatt catctcttcc caaacgacct tcatcccta acaaccactg ctgctgccga 180
caatgcccc aactgctacag cgtctgtacc tgctactacc tctcaccat gtgcaccgcc 240
ccctgcacta actgcgtccc tgtctccacg taaaaggcg ctaccaagta cacatatcca 300
aacttcctta cccaactcta gccctgcccc atccactcca gactcatcct atcaaccatg 360
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<210> 21565
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B6

<400> 21565

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gtgacatoga ctctgggctgg gttatcctca agaactcgga tgcgtttcc gcggatttgg 180
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tcgaagacga gacggtggga ttcgtggaga atgctgtgga ggttgtggag catttagctg 360
aagtaacaga gaagctagct gtgaatgtgg ctaagcaact tcctgaagat gggtc 415

<210> 21566

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B7

<400> 21566

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ctacaaaaag acctccttac ccgaaaaagc aacgctcatt cgacgagcac accaactgag 180
aggtcgtgtg gacctgctac gaccttctca ccaagtacac cgccacctgc atgaactaca 240
tgcccgctca caggacaaa ggccgccacca agtacacatg ccgcgacttc cttccctaaa 300
actacagctg caagatccac tacatactca tgcaatcaac catggtcaca accgatggac 360
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<210> 21567

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B8

<400> 21567

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 acatcagcta cccggctcag gtgttggcaa aatcttctaa gatgattcct gtaatgttga 180
 tgggaactct tctctatggt gtgaagtaca cacttccaga gtatttatgc acctttcttg 240
 ttgccggcgg tgtgtcctcc tttgcgttgt tgaagacaag ctccaagaca attaagaagc 300
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<210> 21568
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-037-Q1-K1-B9
 <400> 21568

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 caatgtatct tcttctgcca aacatctcca tcttttactg ctttctatac tttcatgtat 180
 cacatgtcaa ttatcactat tattaccttc accttagact ttatttttat tcttccctac 240
 acattatatt aattttcata ttataaaatc ttatattaaa ttttc 285

<210> 21569
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-037-Q1-K1-C1
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 caaagttcga ggatgcgaga cagacaatgt cgaggagatt gctttgaaga tctctcatct 240
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<210> 21570
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-C10

 <400> 21570

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gaaggcagta gctgctacag cttcaaaatc aagtcttggc cttgaaaaga aaagcaagga 240
tgactctgat gattctgatg aggatgagtc tgatgattct gatgaagatg attctgatga 300
ttctgatgaa ggccaaggat tatctcctga ccaaagcgat gatgattcaa gtgatgaaga 360
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<210> 21571
 <211> 404
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 <213> Zea mays

 <223> unsure at all n locations
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 <400> 21571

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ttcagcgagc atggagaagt tgttgatgct aaggttgtct acgacagaga aactgggcgc 240
tcacgaggat tcggttttgt atcaatgggtg tcaaaggagg aactcaatga tgctatttcg 300
gccctagatg gacaggaatt ggacggccgn cctcttcgag tgaatgttgc agcagagcgg 360
ccacagaagg gcttttgatg cgtttgtatg agagagatga ctgc 404
  
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<210> 21572
 <211> 415
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-C12

<400> 21572

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ttttgaagtt ggcatagaga tccatcaatt ggtcagagtgc ggggttacca gaaaaggctg 240

gatacaaatt tttggagtgc ctgttcatca ctatttttgc aggcaacaaa agctaaaaaa 300

gtgattacta attgagtaat tgtagaatag acacctattc agatgtagtt ttagttttgg 360

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<210> 21573

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-C2

<400> 21573

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tactgagaga ggcatgggat gatgtccaca cggctcttga acccgatccg acatgttgcc 180

tacgggtggtc tgcccacagt ctgagtcctg ttccacccca agtcacgctc acctcccgtg 240

cttactattg ccctactcct cctgggtgtc attcttctcg tcgactactt catcagcggc 300

tcatgtgtaa ctggtacacg ctgatagtct gttacc 336

<210> 21574

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-C3

<400> 21574

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ggatcctgtt ccggggcagg atcattgatg gtacgtactt gagctggact ggagatgacg 120
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 aagggctacc gctggccgtg aactgagcc ttgcatttgc aatgaagaag atgatgaacg 240
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<210> 21575
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-037-Q1-K1-C4
 <400> 21575

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<210> 21576
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 21576

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<210> 21577

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B12

<400> 21577

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 tacttggtga tggcttccgt g 141

<210> 21578

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-H8

<400> 21578

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<210> 21579
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-H9

 <400> 21579

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<210> 21580
 <211> 119
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-A1

 <400> 21580

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<210> 21581
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-A11

 <400> 21581

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<210> 21582

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-A12

<400> 21582

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 gtctatgacc caactaacca tgtttacatt ggccatatct tcatggcgaa ttcaaaagat 240
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<210> 21583

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-A2

<400> 21583

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 cgctcaccct cgagggcgtc cccggcaagg gcaccgtcgt cttcgtcgcc aactcgtggg 240
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<210> 21584

<211> 410

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-A3

 <400> 21584

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 cacatccagt gaagcctcgc tttcaagtca gcaatcggcc taaatgcaat ttgctaaata 240
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 tgattgacct gcggcaccgg tatgaccaca accttcactg ctactacgac tgctggcttc 360
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<210> 21585
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-A4

 <400> 21585

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 agtcctggca gttatgtaga cacgaaccca tcgtatgaaa gatgaatcca tgtttgggct 420
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<210> 21586
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-037-Q1-K1-A5

<400> 21586

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cacttggatg agataaagaa cttgcaacgt cccaccgatg taccagatca aggtctactg 180
tgtgacttac tttggtcaga tccaggaaaa gatgttcaag ggtggggcat gaatgataga 240
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gatcttattt gtcgtgctca tcaggttgtc gaggatgggt atgaattctt tgctgacaga 360
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<210> 21587

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-A6

<400> 21587

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tgggtctgtc aactgcacgg ccatccggga gctgtacctg gcgggcaaca agatcagcga 180
cgtggagggg ctgcaccggc tgctgaagct ggcgggtgctg gacctgagct tcaacaagat 240
tacgacggcc aaggcgtcgg ggcagctggg ggccaactac cactccctcc tggcgctcaa 300
cctcgtaggc aaccgggtgc aggccaacat cggcgacgac gccctgcgcc gggcggtcac 360
gggcctttct ccgagcc 377

<210> 21588

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-A7

<400> 21588

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 ccgggagatc cagacctccg tccgcctcgt tctaccggc gagctcgcca agcacgccgt 180
 ctcgaggggc accaaggccg tcaccaagtt cacctcgtec taagctcctt tcgagtaggt 240
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 agcagtgcaa tatataattc tggcatacta ttctcgcaat cgttttgggg ttcaaaatgg 360
 gactgacatc acagtaatat gtggcataacc ttctgaccc ctgtactcga gagggatttt 420
 gtgtggataa gccacttgc 439

<210> 21589
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-037-Q1-K1-A8
 <400> 21589

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 tcagtgattg gccttatgca cgctcttgca gtgctagatc tcagtttcaa tgagctatct 180
 actccaatac cctctatact gggccacttg acatacactg agaaattata cctgcagggc 240
 aatacgtcga ctgcattgat actgtcagag ctcgttaata tctctacact gcattacctg 300
 gaactgaact acaatctgat gactgggttc atatctactg atcttggata acttacagaa 360
 t 361

<210> 21590
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-037-Q1-K1-A9
 <400> 21590

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 gaggtcctc atctatgtcg tcgtcacgat ttgcatcggg actatatact tcaatgtcgg 180

caccggctac agctctatcc tggcccgggg ggcattgcgt tccttcatct tcggcttcgt 240
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ggagaggctg aacgggcact acggcgtggt cgcgttcgtg atcagcaaca cgggtgctggc 360
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<210> 21591

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-B1

<400> 21591

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ccctcccgcc gccgcacgat gagcacttct cccgccgccc ccgacgtttc gcctttgccg 180
cctactgctg ccgccgacga ggccgcgcgg gcgacagaga cgggtggtggt cgatgagagg 240
gtcgcctcac acgtggacct gttcctcgtc gaggcgctcg acaaccctcg ccaccgtctc 300
atggtttctac ggatggaact ggatatacaa aactntatgc agaaccctca gctgcaggag 360
tttgaattcc agaactntcc gacttcttac ctncgctgtg ctgctcatcg tggtgcacaa 420
aacatatggc tagagactat ag 442

<210> 21592

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-B10

<400> 21592

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tcgtggagg tggtgctgct ggtgctgcat tggtttttgc tggtccagca attgcatttg 180
caatgtggcg ccgtcgtaaa cctgaagagc atttcttcga tggtcctgcc gaggaggatc 240

cagaagttca tcttggtcag ctcaaaaagt tttcgttgcg ggagcttcaa gttgctactg 300
 atacttttag taacaagcac attttaagaa gaagtggttt tggaaaagtg tacaagggaa 360
 agcttgctga tggctcattg gtagcagtga aaagacttaa agaagagcgc acacct 416

<210> 21593
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-037-Q1-K1-B11
 <400> 21593

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 gaggtgtacc cgctgttcgt gccgatggcc gtggccctgg gtatctgctc gtaccagctt 180
 gtgcgcaaca tcacgggcaa ccccgagggtg cgggtgacca aggagaagag ggcggccggc 240
 gtccctggaca accacgacga gggcgagagg tacgccatgc acggcctcag gaagtctgctc 300
 cgcggaaga agcccgagat catggcttcc atcaactcct tcttcgccga cctcccaag 360
 gacgattaag ctagattccg tcatggatgg atgagtatgt tttaccaatc atttt 415

<210> 21594
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-H7
 <400> 21594

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 acatgacctg cgttcacgtt tgggtatcat tccgcaagat ccgacactct ttcaaggaac 180
 cataagatat aatctagacc ctctttggca attctctgat caacaaatat gggaggttct 240
 aggcaaatgt cagcttcttg aagctgtcca ggagaaggag cagggattgg actcacttgt 300
 tgtggaagat ggttcgaact ggagcatggg tcaaaggcag ctcttttgtt tgagacgtgc 360
 acttctaaga agatgccgta tcttagttct tgatgaggcc acggcatcta tagacaacgc 420

tactgatgct atccttcaga agacgatcag gac

453

<210> 21595
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-036-Q1-K1-G2

<400> 21595

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gcaagggcgcg gaagggcctg ggcaagggcg gcgcgaagcg tcaccggaag gtgctgcgcg 120
acaacatcca ggggatcacg aagccggcga tccggaggct ggcgcggcgcg ggcggcgtga 180
agcgcattctc ggggctcatc tacgaggaga cccgcggcgt gctcaagatc ttcctggaga 240
acgtcatccg cgacgccgtc acctacaccg agcacgcgcg ccgtaagacc gtcaccgcca 300
tggacgtcgt ctacgccctt aagcgccaag gccgcaccct ctatggcttc ngcggctaag 360
tctgcc 366

<210> 21596
<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-036-Q1-K1-G3

<400> 21596

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angttgtgat cgattcttct gccgcgatcc gcagcggcaa gcggagatga actgcgagac 120
ctgtcagctg aaagaactgg agctggaact gacggagatc agggatgttc tgcgctgtat 180
tttgacacc atattcttcc atagaacct cagcctgggt tcgcccag atgttgctcg 240
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<210> 21597
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-G4

<400> 21597

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 atggccgcgc tcagttcttg tgttgcttct ggaggcctgg cacttcaggc cacccttgtg 120
 gtttctcctc ctgcgcgcgc cgggactcca gtcgtcatct ccgtatcatc tcatggtcgc 180
 cgcccaagtc ttatcggctc caccatgaat ccttcaggca tggctccgat caaaagaact 240
 acacgaattc gtgcggttca tccatgccct gcaaattcgt taggaggaag cctcaccatc 300
 atcccaatac ctgacctgct ttcacatggt ctctggatgt tcggagcggc catagctgca 360
 gcagtgcctc tttacagaag gttcagagca ttagaagata acgtagagaa gacggcggan 420
 gcggcgatcg aggtgatcga ctcggtggc 449

<210> 21598
 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-G5

<400> 21598

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 ggggactaag aggacagaaa ggaggcatag agtttctagc acggagcatg ctctgtgaa 120
 aaactcgtgc agatcagctg acaatatagc atcagaacag anaattcgtg gcatatgtcc 180
 aactggagcc aatgctggtt aaccaaagga tgatttgatg gatactattg tttacaaca 240
 attacttggg tggatggata aaattgtcag taagaacggg attttacctt atgtggaact 300
 ttggaatgct ttcaataacc atttaaggaa ctcagggaat tcaattgggg aaaa 354

<210> 21599
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-G7

<400> 21599

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 ccggctccac ctccctctcc acgcgggaga ccgagggtcaa cagcctcatg cagcagggtcg 120
 cggacgacta cgggctcgag gtctccgtcg gtctgccgca ggcagccgcc cacgccatcc 180
 ctgccgccaa ggataaggag aaagtcgacg aggatgacct ttctcgccgc ctccgccgagc 240
 ttaaggcccc cggctgagag gttgtttcag gctttatcag atgcgattca ggcttatgct 300
 gttgagccgc aatgacccat tgtcctgtgg actgctactc atgtttggtg gattcgtaaa 360
 tactactgtt atatgcttga aggcgtgtgt tggcattgcc atgtggngtt tgtgtgactc 420
 gatggaaacc ttgctgtctt attgtacttt aaa 453

<210> 21600
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-G8

 <400> 21600

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 cgtttcatct gagagcatct ctagatttct gctgcctgct tctgaatgcg agtttgtatt 120
 gaactcagtt atagaagaaa tacaaaagga cccttggcct gttccagctg atcagcgtgc 180
 gtctaggtgc actggagctg ccttaagtgt tgcagccaat ctccctggggg tttgtgttcc 240
 tggatcaggt gctaggataa tggcatttgt tgggtggcca tctacggagg gccttgggtcc 300
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 ggcaccactc tatgantaaa gctgtaagtn ntatgatcaa attgcanagc agcttgtgea 420
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<210> 21601
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-G9

 <400> 21601

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attactctca tatctccaac tgtaacccat gctaccttat cataagatta tttcatttat 120
actataactt cacacaattt acctcaattg attgattaaa ctcacactat acacatgcat 180
ataacatata ctaaactctt acatcctata catcatcatt ttatacactc aactaaatca 240
aatacattaa attctattta tcacaacta 269

<210> 21602
<211> 282
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-H1
<400> 21602

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gctttggcgg gtagagtggg gcaccgcgta gcgggacgac atggctgaca cggcgtactc 120
cgaggcgctc ctcgactgcg cacgcctgcc ggccgtcctg ctgcctcggc gcagcagcgt 180
gtgccaccac cagcttcacc ttcaagacgc accgaggctc taccttgac cgtgccacgg 240
ccgcttacga ggacacgtcg gccttcgacg gcgacgagct ca 282

<210> 21603
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-H10
<400> 21603

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aagaaaacac tccaaaagta ttactgtcca agagaaagat tatgtcaccg acgtctcagg 120
agaagctttg cagtgtcttg actggcattg atttgtgtga tggagttcaa agatttaaga 180
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tgtttctgca gcagtgtgct actaatggtt ggaaagcgga acgaaacaat caaacatcag 300
gacaaagctc taaatttgta ttgtccttta tggattggag ataaagagat agagttttac 360
agtcagttcc acataattgt ccttggctta gattcaattg gtatgggaat ataaattatg 420

cgg

423

<210> 21604
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-H11

<400> 21604

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cgacggagaa gaaggacggg gcggtggtgc agccgcagac cttcccggcc ttcgaccgcc 120
tcggcgggcg cgcgtccccg gcgttcggcg gcctccccgg cggcagcatt cctggcagca 180
gcattccccg gttcagcatg cccggcagcg gcagcagcct tcccgggttc agcttgcccc 240
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tgcccggttc cccacccgcc ggctccgtcc ccgagcacgc caacaagccc tgaactccgt 360
ctgtccgtcc gatccgtcgc tggagcgagg tcgggctagc cagcgtgcgt ggtagtagag 420
tgatggtact gtagtacgtc gtcgtcttca tgcattgc 457

<210> 21605
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-H12

<400> 21605

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gtccagcgcg tcgtctgatg actgcggcag cccgatcaac cacggtgcga tgccgttcag 180
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gatgtcgaac taacaggcgc cccattcggt ggtgtttgcg ctggagagga tagaaaggaa 360
cctgctgatg gttagggttg tactgctgct atgaaacggc cctcttgctc gtcgactgtg 420
ctctggtcag tgacgacgtg tcgatctg 448

<210> 21606
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-H2

 <400> 21606

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 caccaagcag ttccacaaca gtgagatcaa gttcccactc gtgtaccgca aggtcaggcc 180
 gccgaccagg aagctgaaga ccacgttcaa ggcttcgagg cccaacctgt tcatgtgatt 240
 tagctgtggc cagtgtatgt gatcgtaaga atctgtgttt taagttttga cgctaagact 300
 tgggtgggtt gaagattcaa ctcgttttga aacgtgcatg gtgaaccatt tgccgac 357

<210> 21607
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-H3

 <400> 21607

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 agaaaatctg gcatcatact ttctacaacg agcttcgtgt tgccccagag gagcaccctg 420
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<210> 21608
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-H4

<400> 21608

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gaccttggtg gctgcttgct tgtgggtgagt gagagtgtga gactgaggga gaagaggtgg 180
tgggcgtggg gctacgtcga gagaggcgtg ttcctgtaat cctgtactcg ctctgttttc 240
tctgcatgcg tctataattg tgttcaataa taagtgagag cgggtgtgatg tgtggctccc 300
cttgtcaggc tc 312

<210> 21609

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-H5

<400> 21609

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catcgcgggg cctcaggagc tccctcgccg tcttctccgc acccggggct cgggtagcgg 180
cggcggcgcg cgagcagaag tggggccacg tggaggggtga tgaagacggt ggagaggagg 240
gcctagggga ggcgctccac aggacgcggg agctcgtgga gtgcgccatg ttcgcggccg 300
tcgctgggct cgctacttc ctcagcaatt ccctcgccat tgagaattat ttcagttgct 360
ttttccatt gccgatagtc atttcctcat taagatgggg actagaagcc agcaagaaaa 420
ccgtggtggc tactggttta ctgctattca cattatct 458

<210> 21610

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-G12

<400> 21610

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atgtcgtggc aggcgtacgt cgatgaccac ctgctgtgcg acatcgaagg ccagcacctc 120
agcgccgtcg ccatcgctcg ccacgacggc agcgtctggg cacagtccga gaacttcccc 180
gagttaaagc ctgaggaggt tgctgggatg ataaaggact ttgatgaacc tggaaactctt 240
gcaccaactg gtctttttgt tggaggtacg aagtacatgg tgatccaagg tgaacctgga 300
gttgtcatcc gaggaagaa gggcactgga ggcattacta tcaagaaaac tggcatgtcc 360
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aggctcggcg attacctgat cgaaca 446

<210> 21611
<211> 444
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-036-Q1-K1-E5
<400> 21611

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aagcatcagc ccaggtgcga aagattttgt tagaaggtta ctagtgaaga atccaagggc 120
caggctaaca gctgctcagc tcttcacatc ggggtagaga agaggagaag catnogatctt 180
cccggctgac atatctgtgt aatcaaacat gcgtaagttt gtcaagtaca gccgtttcaa 240
gcaattcgcg cttcgggctc tggcgagcac ccttaacgag gaagagctat cagatctgaa 300
ggatcagttt gatgcaatgg atatcgataa aagtggatcg attagtatcg aggaaatgcg 360
tcatgccctt gcaaaggatc ttccttggaa attgaagggt ccccgtagcg tggagattat 420
tcacgcaatt gacagccaca ctga 444

<210> 21612
<211> 242
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-E6
<400> 21612

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cccaggtgcg taaaaattta acagtaaggt tgctaaataa caatccaact accatcctaa 120

cagctattaa aactctctca catccctatc aaatacatac aggataaaca tcctatatct 180
 ccttccacat atttctctta tcaaacattc atcactactt caaatacatc cttataaadc 240
 aa 242

<210> 21613
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-E8
 <400> 21613

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 cgacgcgtcg ttcttgccgg ccgcgcccc cctccgccct ctctcctcc aggggggatcg 180
 gatacgccac aggctgcgcg atggtgctgt ggggtcttcgg ctacggctcc ctcatctgga 240
 accccgggett cgacttcgac gacaaaatcc tcggcttcat caagggtac aagcgcaact 300
 ttaatctcgc ttgcattgac cacagaggca caccggagca tccggcgagg acctgcaagc 360
 ttgaaaccga cgacgaggcc atatgctggg gaattgcata ttgtgtcaag ggtgggtccag 420
 aaaaagagct aaaagcaata cagtacttgg agaga 455

<210> 21614
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-F10
 <400> 21614

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 gccgcgtggc ggccggggga cggaccggga acggccccct cgggggcctt ccccgggcgt 180
 cgaacaaccg actcagaact agtacggaca agaggaaccc cacctggatg tattatgagg 240
 aaaaagtgac tgtgcacatg aggagtctga gaattactcg ctcccgtccc aaactaactg 300
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<210> 21615
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-F12

 <400> 21615

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 ttctgaatgt aatatttaac atcctcaaca agaagatctt cgactacttc ccctatccat 180
 attttgtgtc agtgagccat ctttttattg gagtactata ctgccttatt ggctggagct 240
 tcggcatccc aaagcgcgcg ccaatcaact caacacttct gaagcagctt gttccagttg 300
 cggtttgcca tgccattggc catgtaacaa gcactgtgtc atttgctgct gtagctgtgt 360
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<210> 21616
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-F2

 <400> 21616

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 agatcagctt ctctgaggca cctgtcttgg ctgaccccag cggaagggga ctgcgtgcgc 180
 tctcgcgtgc ccagatcgac tctgttcttg accttgctcg gtgcaccatt gtgtccgagc 240
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 acaagattgt gatcaagacc tgtggaacta caaagcttct gctcgtatt ccgaggatcc 360
 ttgaacttgc tgaagagctc ctgttgccac tcgctgcagt taaatactcc cgtggaacgt 420
 tcatattccc tgaagcacag ccttccccac acaagaactt 460

<210> 21617
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-F3

<400> 21617

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 aagctgaggg ccatgctact ataatcctcg ctggtgctga gtatggaagc ggcagttctc 120
 gtgattgggc tgctaagggt ccgatgctcc tgggagttaa agctgtaatt gccaaagagct 180
 ttgagcgtat ccacagaagc aacttggtgg ggatgggaat cattcctctg tgcttcaaag 240
 ctggtgagga tgctgattcg cttggcctca ctggacatga gcggtacagc atcgatctcc 300
 ctaccaacct cagtgaagtc cgtcccggcc aggatgtgac tgttactacc gacaatggga 360
 aatctttcac ttgcatcggt cgctttgaca ctgangtgga gctggcgtac ttcaaccatg 420
 gaggcattct nccttatgtc atccgcaact tggca 455

<210> 21618
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F4

<400> 21618

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 tgcacttcac cgatggatga agcatcgagc atgatatcat atacgacgca ctcgggtogat 180
 ttacatgcat tcaccaattc atactatacc attctgaagg tacgtttgaa cttacttcac 240
 atgtattgca ctatagctag ctgcttaact accggataaa gaaccgaaac gtacacgatt 300
 tctaccataa tacaagtact actccattc 329

<210> 21619
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F5

<400> 21619

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ccacgcgtac gaggtcatgg cgcgcttcga gcgggagggc ctgcaccgcc tccagatcat 180
gccccggggcc tcggagctgt gtggcttcct ggacgcgaag cagatcagaa gaggtttgat 240
cacccgtaat gtgaaggacg cagttgattt gttccaccaa agatttgta tgacgttcac 300
tcttgcaactg agcagagaat ttgcgcccta taaaccaaat cctgctccac tgcttcacat 360
atgctccgct cggaacattc caccacacga agtgatcatg gttggcgaca gtctcaagga 420
tgatg 425

<210> 21620

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F6

<400> 21620

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aggaccggc ggcgatggac gcctagcacg tacctgcaac tgcaatgcag tggctgctat 120
ctatctatcg ttgccttcgc taccagtga gtgctgcaact tcaccgatgg atgatggatc 180
gggtatgata tggatatagga cgcggtcggt cgatttgcat gcatgcacca agtgttacta 240
taccgttctg aaggtaagtt tgaactttgt tcgtttgtat tgcactattg cttgtttgtt 300
aagtagcggc taagggaggg agacgtaccg ctgtgctacc ataatggaag tactactccg 360
gtccggtcct gtgtgagcct tatgtacgtg caattttaat gtgttttgat attacaagac 420
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<210> 21621

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-036-Q1-K1-F7

<400> 21621

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ggcggcgccc aagatgatgg cggagggcgtg gacgccgggtg ccgttcccgc cgacggcgcc 120

ctgcttcttg ctgcacgaca cgcactcggg tttctggcgg ggaggagacg cgtggacggc 180

ggcggaaaac aaactgttcg agaaggcgct ggcgcagatc gaccgtaacg cgcccgacag 240

gtgggagaag gtggcgaggg tgggtgcgcac gaagacggtc gacgacgtga ggaaccacta 300

ccacgacctg gagaacgacg tcngcttcat cgaggccggg ctctgtccgt tcccgcacta 360

cagcggctcg gtttcgtcgg tcgggttcac ccaccacgag gattgggac 409

<210> 21622

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F8

<400> 21622

ccattttccc actcctcctc ttcgctttca tccactatct caactcactc atgcatgttt 60

catctaacat ggtcgcctag cacttaactc ccacttcatt ccactctact atatccatct 120

attgactact tcaactcacac ttcaattttt cacttcaacc atacattatc actcttccat 180

aatactctat attacacaac ccgctgatct tcatacattc attcacaact actatacctt 240

tcacaacttc catttcaact aatcccatca ctataacact attgactaat accttaaata 300

cccctttaat catacatacc ttctctata ttactataa 339

<210> 21623

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-F9

<400> 21623

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tagagacaga gacgaggaca gggagggcca ggccacggac tctcactcc gctcttctcc 120

gctgatctgc ctgaacgacg caactgcagc tgcacatgca ctactcgcca ttccaaccac 180

ctattcactg cgcatatatc tcagcaccca caacattgaa gcactcccta cagtc 236

<210> 21624
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-G10

<400> 21624

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gggcccggcg ctgtgggtgc tgccccggcg tcccatggcg cgctaccctg agccccgtcc 120
ccggtggcgg cgccccctag ccgcggccct ggccggcacgg gcatggcggc tccggcccag 180
tgccggcgca tggcgagcc gctgcccttg cagcgcgggc ggccaggccc tcggtggcgc 240
gcgggcagcc tggcgctgc cgcccctagc cacggcccgg cgccccggcc ccggtggctc 300
cccgtggagc ggcggtatg gccccgtccc tggctcgcca gcgggcggcc ccggcgcggt 360
acaagcgcgc ggcccggcca cggctcggcg cgacacgggc gctctatggc cgtgcggcct 420
atgccaagca cgcgggcgcg 440

<210> 21625
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-G11

<400> 21625

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ggggaccttt aatgagcccc agacatttac ttctttttcc tacggaactg gggctcttgc 120
cccaggtcgg tgctcacctg gactagactg tgcctaccca actgggaatt cactcgtcga 180
gccttacact gctggccata acattctcct agcccacgct gaggtgtgtg atctttacaa 240
caagcattac aagcgcgacg acaccgcat agggcttgcg tttgacgtaa tgggtcgtgt 300
gccatacgga acatcgtttc tggataaaca ggccgaagaa aggtcctggg acatcaacct 360
aggatggttc ttagagccag tggttcgtgg tgactacccc ttctccatga gatcattggc 420
tagggaacga ctacccttc 439

<210> 21626
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-E4

 <400> 21626

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 ctgtggtgag cagcaggaag acgccgcagg cgggtggtggc cgtgctggtg gcggcgggcgc 120
 tgctggcttc gtccgcttcg gcggcgatca cctgcgggca ggtggggctcg tcgctggcgc 180
 cgtgcatccc gtacgcgacg gggagggcca gcgcgctccc cgcgtcgtgc tgcagcggcg 240
 tcaagagcct caacagcgcg gcgcggacca gcgcggaccg ccaggcggcg tgccgctgcc 300
 tcaagagcct cgccaacagc gtcaagagcg tcaacatggg caccgtcgcc accatccccg 360
 gcaagtgcgg cgtctccgtc ggattcccca tcagcatgtc caccgactgc aacaagatca 420
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<210> 21627
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-D10

 <400> 21627

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 gcgggcacga gggacgtctt cggcgagggc cgcacacca tgcgcaagac cgccgccaaag 120
 cccaagccgg cggcgtccgg cageccatgg tacggtgccg accgcgtcct gtacctgggc 180
 ccgctgtccg gctcgcccc gagctacctg accggcgagt tccccggcga ctacgggtgg 240
 gacaccgcgg ngctgtcggc ggaccggag accttcgcca agaaccgcga cctggaggtg 300
 atccactgcc gctgggcat gctcggcgcg ctcggtgcg tgttcccgaa ctgctcgccc 360
 gcacggcgtc aggtcggcga aggcgggtgg gtcaaggcgg gcctccagat cttcagcgag 420
 ggccggct 428

<210> 21628
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-D11

 <400> 21628

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 agagcctatt ggggtagttg ggctgataac tccttggaac ttcctctcc tgatggctac 120
 atggaaggta gtcctgctc tggctgctgg ttgtgcatct gtgctaaagc catctgaatt 180
 ggcttctgtg acttgcttag agcttgctga tatctgtaaa gaagtcggtc ttccttccgg 240
 tgtcttaaac attgtgacag gattaagtcc tgatgctggg gtcctttgt cagcacaccc 300
 aaatgttgac agggcgcttt taactgggag gtttgaactt gtaggaagat tatgcggctg 360
 cagctcctat ggttaagcct gttacactgg aacttggtgg aaaaagtcct atagtagtat 420
 ttgatgatgt tgacat 436

<210> 21629
 <211> 56
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-D12

 <400> 21629

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<210> 21630
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-036-Q1-K1-D2

 <400> 21630

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 acgagtagga gcccgttcgc gagagcgggg cgggcaactt cggggtggcc aagctgatga 120
 ggaacaagga cagcaggagg ctggtggcca tgaagttcat agagcgagga aacaggatcg 180

acgagaacgt gttccgcgag atcgtgaacc accgctccct ccggcacccc aacatcatcc 240
 gggttcaagga ggtgggtgctg actcccacgc acctcgcgat cgtgatggag tacgctgcgg 300
 gcggggagct gttcgagcgc atctgcgacg ccggggcggtt ccacgaggac gaggcgcgct 360
 acttcttcca gcagctgggt tgccggtca gcttctgcca cgccatgaac atctgccacc 420
 gggacctcaa actggagaac acgc 444

<210> 21631
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-036-Q1-K1-D4

<400> 21631

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 ttgtgtggag gggcgatggc ggcggtgat gtggagtacc gttgcttcgt cggcgggctt 120
 gcctgggcca ccagcaacga gtcgctggag aatgccttcg cctcctacgg cgagatcctc 180
 gactccaagg tcatcaccga ccgggagacg gggaggtctc gcggcttcgg cttcggtacc 240
 ttctcctccg agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac 300
 ggccgtaaca tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cggcgggtggc 360
 tacggcggcg gtcgcgggcg cggcggctat ggtggcgggc gccgtgacgg cggttatggc 420
 ggcngtggcg gctacggcg tcggcgcgag ggtggtggcc 460

<210> 21632
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-D5

<400> 21632

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 tctaataacg attgcggtgt tcgtgaatac gatatggaga gatttcagct cttgaaccac 180
 taccgatata actggccagt taatcacaca tctgtgagcc cggataagaa acttttggct 240

gtgggttgag atgatcgga tgctcttctt gtggattcac ggaatggaaa ggtaacctct 300
 accctagttg gccatctgga ctactcattt gctacggcat ggcacccgga tagccggacc 360
 tttgcgaccg ggaaccagga caaacctgc cgtatctggg acacccgcaa cttgt 415

<210> 21633
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-D6
 <400> 21633

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 cgggcagtgg gggagaattg cgctgcaggc ctccgtcatc ataaacaatg tcggcgtgct 180
 aattgtttac atgattatca ttggtgatgt attatctgga acaacatcag gcgatgttca 240
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 tcttcttgcc acagctcttt tgggtgttgc tccgttgggt agctttaagc gcttggattc 360
 attaagatac acatctgcgc tatcagttgc cctggcagta gtttttgcg taattactgc 420
 tgggattgcc atcatcaaac tcttcaatgg aactgtagcg atgcccac t 471

<210> 21634
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-D7
 <400> 21634

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 aaagcttgtg ctgcaccacc tgaccgatga ggagtgcgtc aagctcctgg ctcaatgccg 120
 gaaggcgatt cctccacgga aggacggcgg gaaagttata atcggtgata ttatgattga 180
 ccactctggg cttatgctgg aaactcacct cctgatggac atcggcatga tgaccatgac 240
 aaaaggacgg cagagagatg aaaaagaatg gagcgagctc ttcaccaaag cagggttcag 300
 cgaatacaag atcctgaagg aatttggagc tcgtgttgcc ttcgaagtct atccgtgaga 360

tatatatata tatttacata catatatgta tgtgtgtggg tgccttgctt ggcttggcgt 420
 gatgatgtca taaataaaga ggggtgggtgt gc 452

<210> 21635
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-D9

<400> 21635

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 ccgtcgatcc cttctctaag aaggactggt atgacatcaa ggccccatcg gtcttcagt 180
 tgcgcaacat tgggaagact ctctgttcca ggacacaggg taccaggatt gcctctgatg 240
 gtctgaagca cagagtcttt gaggtttgtc tagctgatct tcaagggtgac gaggatcagg 300
 cttacaggaa aatcaggctc cgtgctgaag atgtgcaagg catgaatgtg ctcaaaaact 360
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 tgattgaagc ccatgttgat gtc 443

<210> 21636
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-E1

<400> 21636

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 caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagacca aggggtgaac 180
 cgcacccgcc aaggccaatt ccaaaa 206

<210> 21637
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-E11

<400> 21637

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ttggctacca agctagggga gcactgcctt caaagtttga ttgcgattat gcctacgttt 180
tggggcatgt gtgctaccac atcatagctg ccggattgaa cggttacatg gctacggatga 240
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tgactgtgaa gcgatggtcg cgtggccctt cagccacca aattggaaag cccgctgttc 360
acatggctag cgttgacttg aaaggaaaag catacgatgt gttgagacag aattcttcca 420
gctttttgtt ggaagatgtc tac 443

<210> 21638

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-E12

<400> 21638

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atgactacaa gcagaaaggt cgagactgtc tgactccagt atgtccacac aaaagatctg 120
attatggatt acctgaggat aaatttattt ttgcttgctt caatcagctt tacaaaatgg 180
acctgagat atttgacaca tggtgcaata ttctcaaacg tgttcccaac agcgcattat 240
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gagtaagatc agatcaaatt gtattcacag acgttgccat gaaaaaatga gcatatacga 360
cgcaatgcc ttgcaaaaact tttcctggac aactccctct tgaatgcaca cacaacaagc 420
actgacatac tgggggctgg tcttgcaatg atcaccct 458

<210> 21639

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-E2

<400> 21639

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aggcgagaca tgctgcagag gttgttggac cagtgccgcg agattcaggt taccgttgac 120

gtctacctca tcgaaagtga tcagattgct aacgctatca tcgagcttgt tctgttctt 180

cgcataagtc aactgggtact aggcgtctca aagtcaaagt tgcggaagct gaagaaagga 240

accacgatag caggacaggt acacaagggc gcacctctct actgcgaagt caagatcgtc 300

tgcgacggca aagaggtgac gactgttgac ccaacgccac cgctgtcacc ttccccctgtt 360

aacaacaaca gcagcagcag cagatccaac aacccgacac caccgtcgtc tacgccgaat 420

catgatacaa cagctgcaaa cgggtgacagg aaagacagag aaag 464

<210> 21640

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-E3

<400> 21640

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actcgcacgg catcctaaga tgaaagtttt cctcaggaca atttcaccaa ggcactttgt 240

aatgggtgac tggaacacag gtggaacatg tggaaatacc gtcccccttta ctaatggaag 300

tgaagtcttg caagatcatt caattgatat acccgagaa aatgctgtga aaggaactcg 360

ggttaagctt ttggatatca ctgctatctc aaaactacgg gatgaggggc atatctcaa 420

ctctagtttc aaaa 434

<210> 21641

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-D1

<400> 21641

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gtccagattt tgtgccaggg caccgcgctg cccaacgagt acccaagtct cgcagaaaat 180
atcaatactt gcttcgtatg attttttgcc aaatgactag caaattccta gctaacgcgg 240
ctgttatgcg taaaaccaga agagctgctg ctttttagatt acgtctgtta tatattaata 300
ggcgagaagt aatatgtcag tggggggcgtg gggctgatgt ggtaagatgg atggtgttaa 360
agactagcat gtgcccgaatt tgacgaaaac gactacaaaa gcgggatgag cattga 416

<210> 21642
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-B11
<400> 21642

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aaggctcat ctatgaatag gaggggtata tatgggatat accatctgac taatatggtt 120
atggttcgct tcatctggtt agtgaacctc cacgtcccca accttcggtc cttcgaccaa 180
tgcccatggc ttgaaatcgg aaaggcgcac atatattgca cacctttagc tgagagaagc 240
tttaatgctc actgtaacga ttaactaaca ctctttattg gagactgtgc ccacccatg 300
acactgttag aatatctcac ggacactcat gttgaatatg cattgagcat cgctgcactg 360
gtcatacgta tggatcatcta gattgggaac attaagc 397

<210> 21643
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-B12
<400> 21643

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gaggcgagtt cgggagggag cggatggcaa tggctctgct tccgctattg ctctcgcccc 120
tcatcgtctc ctgcgtcgcg cagtcgccgg cctcgtcgcc gtccgcgtcg aatgctcctc 180

cggtcaccgc ctcggtccg cggagctctg tcgcgccacc gacaacggcg gtctcggcgc 240
 cgcagggctc tgtcgcagca ccgacgacaa ctgcggcctc ggcgccgag gcttctgtag 300
 cgccaccgat gacaacggcg gcctcggcgc cgaaggcctc tgtcgcggca ccgacaacgg 360
 caacctcggc gccgctggcc tctgcagcgc caccgacgac aacggcggcc tcggcgccaa 420
 cggtctctgt cgctgcaccg c 441

<210> 21644
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-B2

<400> 21644
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 atctacacac attattcaat atttttatct ctctttatta ttttttaaaa tttatatctt 180
 ttatatacac atatattcat ctctttatta tttactctat cttctctatt tttctatcat 240
 tatatctt 248

<210> 21645
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-B3

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 ggaccactg tccgtgaagg agagtatgtc tttgggtgctg ctcacatctt tgcacacctt 180
 aatgacacct tcattcatat cactgatttg tctgggaggg aaactctggg tcggatcacc 240
 ggtggcatga aggtgaaggc tgaccgtgat gagtcgtcac cttacgctgc tatgcttgct 300
 gctcaagacg tcgcacagcg ctgcaaggag cttggcatta ctgactgca cattaagctt 360
 cgtgccaccg gaggcaacaa gaccaagacc ccaggacctg gtgccagtc tggcctcatg 420

gcgcttgctc gttcccggat gaaaatcgga

450

<210> 21646

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-B7

<400> 21646

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tttagtgaaa ctggttgggt gtgaactaat tgaaacagtt gttgcccattg acgtgattgg 180

acgtctgaat atacaaatgt ccctccaacc ttgccttgcc ccaattttgg aaggccatat 240

tgggaatttg aaaatccaaa gtttattttt aaccattgcc caaaattgaa tgcctgcggt 300

ttggggatgt gttgatctca tttcctgatg ccgtaccttg tggagtcaag gttgcttcaa 360

aatctggaaa gatcttgatg aatcctgatg attgttatgt tttaagaga 409

<210> 21647

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-B8

<400> 21647

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gcggcacgct agctctagct ctcacatcga ttgagatcat cagagagggtg gaagaagaag 120

gagctaagat accagatcga ggaagagagg cgggtgcggtc ggtagatgat ggagagggtc 180

gaggacttag ggctcaagcc taacctcagc tcgtccctcg cgtctcctcg aactcaccat 240

gtcgacacca tgctgctacg cgctccaaaa aagaagttcc tggagatgcc actgggtgctg 300

cccgcgaaac cgaacgaagt caccggccaa gaaggcc 337

<210> 21648

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-C1

<400> 21648

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aggcatggca tccaaggccg gcctgttctt ggctctcaac ctctgttct tccaggtggc 120
caacgcctgc ggcagctgcc cgacccaac gcccccggtc gagccaccgc cgccgcctcc 180
tgctgtacc ccacccctt cgtccagcgg caagtgcccg ctgaacgcgc tcaagttcgg 240
cgtgtgcgcc gatgtgctcg gcctcgtcaa aggcgaggtt ggcaaggtgc ctgccgagcc 300
gtgctgtacc ctcatcaaag gccttgcgga cttcaaggcc gccgtctgcc ttgacagggc 360
catcaaggcc 370

<210> 21649

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-036-Q1-K1-C11

<400> 21649

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ctggaccgcg tgtacgcgc gaagttgcgg ctcaagtgca agacgctgac ggacaacacg 180
acgatcgtgg agatggacc cggcagcttc cgcaccttcg acctgagcta ctaccgggc 240
gtgctcaagc ggcggggcct gttccagtcc gacgcgcgc tcatcaccga cgccgcctcc 300
aaggccgaca tcctcagcgt gatcaacgcg ccgnccgagg tggtcttcca ggtcttcgcc 360
ggcctcaatg tcaagatggg cgccatcgag gtcaagaccg gctccgagg cgagatcagg 420
aagcaactgcg ccctcgtcaa caagcactag gcggcggaat t 461

<210> 21650

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-C12

<400> 21650

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gcaacgggca ggtgacgtgc ctgccgtacc aggcgcctg cgccaacagg gaccagcaca 120

tcttctggga cgccttcac cgcgcggagg cggccaacat catcgtcggc cgccggtcct 180

accgcgccga gtcgcccac gacgtctacc cgatggacat cagcacgctc gtcttcatct 240

gattctgatt ctcatccttc cattaatata aacataaaaa tatatgatat aatccacca 300

acaattcgca aaggctggca tattaacaa ggctccaaga agaagtagcc gtgccattct 360

ttactgggga ccagctcggg ccttatctgg aatttttcat gctttcatac atttgcacg 420

ggtactta 428

<210> 21651

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-C2

<400> 21651

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cgcgatacaa cacaacctga attcgaatcc catttgatcg gtccgtggga tcacggcatt 180

gcattcccag tggaggagtt caaagcagac cctgctatga gcaagtcata aggcaaactt 240

caccttgaca gaaaattttc agagttgacc tctccacgag atgatcattc tcatgtgaat 300

atatattatc ttaacaacag aatgttgatc ggggttttga ccctgcacct gatcccttca 360

gccacgtcca gttattctta tcaactgagt atccatcaac aagtctgta attatgagga 420

tggtgttaca gagtttctag caagcatttt catcgaggga at 462

<210> 21652

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-C4

<400> 21652

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atctattgac gttcctcaag tttggaatca ccatgaatgg attcattcat ttgaaaaatt 180
tttggactcc atgaatatcc atcatgttca catttatggg acatctcttg gtggattcct 240
ggcacaata tttgctgaac accgtccaag gagagtaaag tcattgggtcc tatcaaatac 300
ttttcttgag acgcacaagt ttgctgctgc catgccttgg tctccagttg ttaattggac 360
cccttctttt ttgctgaagc ggtacctctt gacaggaatc cgagatggtc cccatgaacc 420
attcatcgca gactcagtag attttgggtgt gggt 454

<210> 21653
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-C5
<400> 21653

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gcgattgttc aaggacggca agggctgcgg ctcttgctac aagattcggg gcaggaagga 120
cccgctctgc tccgggcgga cggagacggg gatcatcacc gacatgaact actaccgggt 180
gtccaagtac cacttcgacc tcagcggcac tgcgttcggc aggctggcca agcccggcct 240
caacgacaag ctccgccact ccggcatcat cgacatcgag ttcaccaggg tgccgtgcga 300
gttcccgggc ctgaagatcg ggttccacgt ggaggagtac tcgaaccccg tctacttcgc 360
ggtgctggtg gactacgagg ac 382

<210> 21654
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-C6
<400> 21654

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gcgattgttc aaagacggcg ggggctgtta ctcttgctac aagattctat tcaagaatga 120

cccgctcctgc ttcatgcata cagagaccgt gatcatcacc gacataaact actaccgggt 180
 agtccaagta ccacttcgac ctcagcatca cttgcattcg acttagctgt ctcaaacgac 240
 tgacctcaac cactagctcc gccactccat catcataaac atcaagttca ccacattgcc 300
 aatcgagttt ccgggcctga agatcgtttt ccacgtgcaa gagtactcga acacgatata 360
 cctcgcgata ctattc 376

<210> 21655
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-C7
 <400> 21655

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 ggggaagatc aagttctaag agaggcaaaa aggaggaaaa agaagacaca gaagctgcaa 180
 atgaggctgg agaagatggt gcttcggagg aaggtaaagg tacagatgtg gagatgaaag 240
 atgctgaaaa cgctgaagac gaaaggaaag aggcccaaat gcagatgctg cagagaagac 300
 tgaggaaggt gaagatagga aagaggaggc ccctg 335

<210> 21656
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-036-Q1-K1-C8
 <400> 21656

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 ccggcgggcg cgaatgcggc gccaggggccg gcggcgtcgt cgtcgaacgg cgcgggcgct 180
 gctgacgctg cccctcccac agacttgaac aaggcgctca aggacgacca gttcagccag 240
 cttaaagcaac tgctgcacca cacgctcggt gacactctta ttaacactca tctgacgttc 300
 agctactacg gtctgaccat tatggcgccg accaatgccg acttccagcc gatgaatgcc 360

ggcctgctta acatgctttt gccgcagggtg cagatccagc tca

403

<210> 21657

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-B10

<400> 21657

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aggaccccaa aatctgagat ccttgctgcc cgcccgcccg tgcccgtcga cgcgtcgttc 120
ttgccggccg cgccccacct ccgccctctc ctctccagg gggatcgat acgccacagg 180
ctgcgcgatg gtgctgtggg tcttcggcta cggtccctc atctggaacc ccggcttcga 240
cttcgacgac aaaatcctcg gttcatcaa gggctacaag cgcaccttta atctcgcttg 300
cattgaccac agaagcacac cggagcatcc ggcgaggacc tgcacgcttg aaaccgacca 360
ccaggccata tgctggggaa ttgcatattg ggtcaagggt ggtccagaaa aagagctaaa 420
agcaatacag tacttgaga 440

<210> 21658

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H6

<400> 21658

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gcgtacaaga tggcgacgga ggggatgaac gtgaaggagg agtgccagcg ctggttcatg 180
gagatgaagt ggaagaaggt gcaccgcttc gtggtgtaca agatcgacga gcggtcgcgc 240
gccgtgctgg tggacaaggt gggcgccccc ggggaagggt acaacgagct cgtggccgcg 300
ctgcccggcg acgactgccg ctacgccgtc ttcgacttcg acttcgtcac tgttgacaac 360
tgccagaaga gcaagatctt cttcatcgcc tggtcaccgg cggcgtcgag gatcagggcc 420
aagatcctgt acgcgacat 439

<210> 21659
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-H7

 <400> 21659

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 gagcaccaag ttcgaggagg agctccgcgc ggtgctgccc caggagggtg aggccgcccc 120
 cgtcgccgtc gccgagggca ccgccccgt ggccaaccgg atcgcggaaca gccgctcggt 180
 cccgctgtac cgcttcgtgc gcgaggagct cggctgcgtg ttcctcaccg gcgagaagct 240
 caagtcccc gccgaggagt gcaacaagg gttcctcggc atcagccagg gcaagctcgt 300
 cgaccatcatg ctcgagtgcc tcaaggagt ggacggcaag ccgctgcca tcaacatcaa 360
 ctaaaagacg ccaggcgccg ccatccatgc tgccgcccgc gcatggccgg aggagaagag 420
 gaaaatacat gaaaaataa aacttgtaca cgtg 454

<210> 21660
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-H8

 <400> 21660

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 atcatggtca ccatcatatc tagtggacct actaacctga cacacctcac aattcatata 120
 ttaacatcat cttacacccc aacatcacia tcaatcaacc caccctaact atcatccttc 180
 gcacttaaca tccctcatcc atctactcaa tcatatactc acacatgaat ttcactacct 240
 gagcactacc tacctatgca ctacatcctc cttctactag ctgactccaa ctaactatct 300
 gctcatccac cccatgataa cttacc 326

<210> 21661
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H9

<400> 21661

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gtgggcaagc ccaaggtggc ggcgtccggc agcccctggt acggccccga ccgcgtcaag 120
tacctcggcc cttctcctcg cgagcccccg agctacctca ccggcgagtt ccccggcgac 180
tacggctggg acaccgccgg gctgtccgcc gaccccgaga cattcgccaa gaaccgcgag 240
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ctgctctccc gcaacggcgt caagtccggc gaagccgtct ggttcaaagc cggctcccag 360
atcttcagcg agggcgggct ggactacctc ggcaaccca gcctgatcca cgcgcagagc 420
atcctcgcca tctgggcct 439

<210> 21662

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A10

<400> 21662

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ctcccatttt cttctctttt ctagacatct tactatgctc tttctaggaa actggtcgtg 180
ctgattcaac aaaagtcaaa gtcttttgca caaatgaaaa aaaaaaaaaa aaaaaaaaaa 240
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaggcgg 300
accgccctta aaggaccaca gatgactaac atgcagttcc tacgaattag ctgttctata 360
aaagaggcca cagctcattt aactggccgc cggg 394

<210> 21663

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A11

<400> 21663

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gcacgatcat ttccaagctt gaggaactgt caacagggtc acaatcttga ctgacaagtt 180
tgggcagcca aaaggttttg cttatgatga atttctgg 218

<210> 21664

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A2

<400> 21664

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ccttgggggtc gatcggaag catgggtggt acgacaggga ggttacggcg ttcgtggagc 120
cgggtcggat gcacggcctc tccgggggtga agagcaagga gtcctcctc tgggtcacca 180
tctacgagat cgtactcagc ctctcctgca ccaagatcgt gattcgcacc cccgcggggc 240
gtcggacgcg ccttcctgt caccgcctta cagctcgagc ccgaggggga ccacaaggcc 300
gacgacgccg tcgtcggcgg cgaccactga tctgctctag cttccggctg cggcttgctt 360
acatgggct 369

<210> 21665

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A3

<400> 21665

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atgtggagta aaccaaactt ttatacgctt catgcttgca aaactttagt tcttattcta 120
atgaactgct ggtttgtgat gaagttttgt ttagggttta gggtttggca ttgtgtataa 180
aggttgtgtt taattgctaa cccttaattt tgtcaacctt aactggatga tatacaatag 240
tatggtcctt tccaaagacc ctttagttaa gaaccatgaa atgctcctga atctcctaata 300
ccaagacatc ttttggtaac taccaaattg caggttggtg gagcatttgc taatttggaa 360

caaatgactc aagttaacca taa

383

<210> 21666

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A4

<400> 21666

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aatattcgct agttgagtgg ttccgggcata ttccctgagtg tgctacggtg aacttgatatg 120

tcattatcat ttcaacgtat ctagatgcat tatggaagat ttttagtttt ctttggttata 180

tttgagaagt tatatatattgc atatacagag agatgcagct gggtattatt tgctgcaact 240

tcgcgatgtt gcagtcattt tattgtacat aggttatatg atacgtctgt gtcaccgcat 300

gaaaatctac tgctgtgccca tatgaagacc ttgcttatca cgggtgtttgt acctaagatc 360

aactactggg cctacaccgt ggacggagta ttttaattgat gaaatggcta 410

<210> 21667

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A5

<400> 21667

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ccaccgcggc gacagcgggt gccagggcgc cttctacacc tacgacgcct tcatcgaggc 180

cgccagcaag ttccccggct tcggcaccac cggcgacgag cagacgcgca tgccgggagct 240

cggcgcttc ttccggccaga cgtcccacga aaccaccgt ggatgggcca ctgctccgga 300

tggaccgttt gcctggggat actgccgggt gaaggaacag aaacagacgg acccacccta 360

ctatggacga ggaccatac agctaactca taagtacaac tacaggctcg cctggcaagc 420

<210> 21668

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A6

<400> 21668

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cggttcggcg acaactgacc agagcaaaga accggatcaa attgggatca aaatgtatgc 120

ctgggacgat ttcttgaaag tggggaagga taatcctcgt caaccttgcc ttccgcaggc 180

aagtgacatc tgcactgaca tgtacacaag tggaacaggc ggacagccca aaggtgtgat 240

gctgacccat gaaagccacg ccatgtatgt gaaaggggtg gacctcttca tggaccagtt 300

tgatgataag atgacaacag atgatgtctt cctgtcgttt ctcccgcttg ctcacatcct 360

tgaccgcatg atcgaagagt atttctttca caaag 395

<210> 21669

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-036-Q1-K1-A7

<400> 21669

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aggtttctgg gacatgtatg acccagaggg ctactccctg tggttctgtg actacaagta 180

caatgacgag aacacagtgt cgtttgtgac tatgaacaag gttggtggct tcctgcagcg 240

gatggatctg tgccgcacat acgcctttgg caagatgctt gtggttggct ctgagccccc 300

tttcaaggtc aaggggctct ggctcttccg tggccccgaa atcccccaagt ttgtcatgga 360

tgaggtctat gacatggagc tctatgagtg gaccaaggtc gacctctctg atgaggccca 420

gaaggagcgg ntcaatgcca tgat 444

<210> 21670

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A9

<400> 21670

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cgggctcgcc agcgcgaccg cggggcagca gcattaccag cttcaggagc cgaaaaacca 120
agcggccggc ggcgggtccat caggccatcc tgaccaggac cacttggagg tcgtcgtcat 180
tttgaattgc ccgaccaag 199

<210> 21671

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H5

<400> 21671

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gtttatgtgg gctgtgggga acgaggaaac gagatggctg aggttctcat ggactttccc 120
cagttgacga tgacattgcc tgatggccgt gaggagtctg tcatgaagag aacaacactg 180
gtggctaaca catcaaacat gcctgtcgct gctcgtgaag cttccattta cacaggaatt 240
acaattgctg agtatttccg tgatatgggc tacaacgtca gtatgatggc tgactccacc 300
tcccggtggg ctgaggcatt gcgtgagatc tcaggcggtt tggctgaaat gcctgctgat 360
agtggttacc cagcttactt ggctgcacgt ttggcatcct tttatgaacg tgctggtaaa 420
gtaaaatgtc tgggaagtcc agacaggaat ggcagtgtca caattggt 468

<210> 21672

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-B1

<400> 21672

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cgggtgagcg cgctcgcccc ggtggccacc ctgcgggct cgcagtacac gctgaacctc 120
acctacgaca tgggcaccgt ccgcgtgaag tccatgtggt ccgaccccaa gatcagcagc 180
agcgtgtact ccacccgccc cgtcgcgggtg tacgaggctc gcaaggttct cctgccgatg 240

cagatcttca agagcgaccc ccgctggcg cctgccccg ctccggcacc ggatgccaag 300
 gcatccgacg tcgctcccag ccggcgctcg gggaaatcgt cagcgagtgc gaaggcgaag 360
 gagaaggcgg gagagaagag ctcgctcgtgc cgagccggtg tcgtcgccca ttacttggcg 420
 atcgctgtc 429

<210> 21673
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-G1
 <400> 21673

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 cggccggccc gcgtgggtgc tcgtgtccgc gagcaacccc gccaggcttg cctgggcccc 180
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 cgctacgagg cccgagaagc tgcttgtagt cttctccgc ggtgtcggcg tggatatcgc 300
 gcggcggtta gccgaggggt tcgaggccgc cgaggctgac ttgctcgagg agttcattgg 360
 cgactccgag gaggagaatg aacaccggtg ggttgcgtc agc 403

<210> 21674
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-G10
 <400> 21674

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 ttagagacta tggcacgtag accggctgat cctgaagaag aacttagatg gatgtctcaa 120
 gaagtctgtg gttatgtcga ggctgttttg aatagtctgg cagcaaattg tccaaaggct 180
 attgcgcttt gtcaagtgga gaaagcaaag gaagacatgc ttaaccagct atacagctcg 240
 ataagcgggc aaagcaatgc taagattgaa gagctgcttc cagaggacca taatgctaag 300
 cgcataacgg agaagtacca aaaacaatca tctatcctgt caaaacttac tcgtcaactc 360

agtatccatg ataacaaggc atctgtatac tcttattcta at

402

<210> 21675

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-G11

<400> 21675

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ctctcatatg tgtagaggca atttgaaagg agccatgttg cttaaaacgg tcggaagggtt 120
aactttcttt ttatacatat actaaatcta ctaataactt tacacctaca gctctactac 180
attttccatt acctaactct agaatttatt ttatatactc ttacaattac tatcaataac 240
atatatatta tcacactctt atgctgatca tctttacaac aatcattaca ttttctacta 300
cacttgtata tttctttctt tttacttatt gtataatttt ccatacttaa cattttt 357

<210> 21676

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-G12

<400> 21676

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ccgcaggttc cccgcgtcaa gctcggcatc caggggcttg aggtgtcgaa gctgggggttc 180
gggtgcatgg ggctcacggg cacctacaac gcgccgctcg gcgacgaggg cgtggccgcc 240
gtcgtcgcgc acgccttacg ccgcgggatc accttcttcg acacctccga tgctacggg 300
ccccgcacca acgagaccct actggggaaa gcgctcaagc agctgccgaa ggagcaagtg 360
caagtggcca ccaagttcgg gataagtcaa ggcgccgctg gcatgaccgt gtgcggcacg 420
cccgaatacg tacgcgct 439

<210> 21677

<211> 411

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-G2
 <400> 21677
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 gcttgtttgt gtatgatatt ttctgggtgt tcttctcaga aagggtcttt ggagcaaagt 180
 tcatggtttc tggtgccact cagaaggcat ctaatcctgt tcacacagta gcaaataagc 240
 tcagcctgcc tgggttgcaa ttgattacaa aaaaagctgg agcttccagt caagcttgta 300
 tttcctaaga atttgttggg tgggattgtt ccaagaagca atcctgggtga ttacatgatg 360
 cttggccttg gaaacatgc cattccaggg atgcttctag ctctggtact c 411

<210> 21678
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-G3
 <400> 21678
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 ctgaggggtcc acttcaagaa cacaaggag acagcctttg cgcttcgcaa gttgtctttg 120
 accaaggcta agcgatacct tgaggatgtt attgctcaca agcaggcaat tcccttccgg 180
 agatactgtg ggggtgttgg tcgcaccg cgagctaagt cgcgccactc caatgggcag 240
 ggccgctggc ccgttaaata agccagggtc atcctggatt tgctgaagaa tgctgagagt 300
 aacgctgatg tgaaaggctt ggatgtggac aacctctatg tttcacac 348

<210> 21679
 <211> 173
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-G4
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ggcagtatac tttcgaatgt cttcacttca tggctcgtcc actcctgtta gatctggact 120
 cttatcctgc attctgtact tggcctaagc atctatgatg cctgttttaa aaa 173

<210> 21680
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-G6

<400> 21680

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 cggagccctc atatagttat gtgccatcaa tctttttacc acaatgggtg aatatatctt 120
 gttcttgagt acatggaccg tggatcgctt gcagacattg ttaagcaagt gaagactatt 180
 ctggagccat accttgacgt actttgtaag caggtcttgg aggggtttatt gtatcttcat 240
 catcaaaggc acgtgattca caggacata aaaccatcta acttgttggt caaccgtaaa 300
 ggtgaagtca agattaccga ctcggagtg agtgctgtgc tagcaagctc aatagggtcag 360
 cgagatacat ttgttgaac ctacaactat atggcgctg agcggattag tggtagcact 420
 tatgactaca aaagtgacat atggagt 447

<210> 21681
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-G7

<400> 21681

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 tgccggggcc tgggtctacta ccactgcgcy gtacggcgag ccagcgcggt gtccttgca 180
 gcagacgtgc tctcgtctt tctctgctg ctctccatcc tcggcctact cttccgccac 240
 ctccacatct cgggtgcctgt ggatcctctt gaatggcaga tctctcanga gatggcaaat 300
 agcatagttg catccttagc caatacagta ggagctgctg agtctgtatt aaggggtggct 360

gcaactggac atgacangaa gctgtttttc aagggtggtt ctacattgta ttttctagca 420
gctttgggaa ggggtggtgtc agg 443

<210> 21682
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-G8

<400> 21682

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gggcattaca tcatggtgcc cctattgtgg taagctacac attgcataac atgcgatgga 120
ccatatgaat cccttgccaa aaggcatgac ttcaatgcaa tagcatgaca ccaacgatga 180
gcactcaact gctccattca gtaacatac atactctatc cacattaagg acctaacgat 240
gctatccttg ctaacgctga tggcgcggtt catgatgagt gatgttagta atctaactac 300
gaatgactgg catcatctac cacagtctac atatg 335

<210> 21683
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-G9

<400> 21683

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aatgtacatt gtcacttata atgtggcact taaatccctc acacattact tcctcctatt 120
tgctgactct ccccttcattg ctatcaacca ttcataactt aattatcctc tcatttactt 180
ctctctcctt ttactgttta ctctttcaaa tctacatgct ttact 225

<210> 21684
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H1

<400> 21684

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tctgaggggtt tacttcaaga gcacagggga tacatacttt tcactttctca agttgtctct 120
taccaaggct aatctatacc ttcaagatct tattgctcac aaacatgcta ttcccttccc 180
tagatactga cctgctgtta ctcataccgt tcaagctaata aatcaccact tcaatgttca 240
cctcctctag accgttaaat catccagttc cattctacta tagcttaaaa atgctcat 298

<210> 21685

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H10

<400> 21685

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atgctggtgg tattgctgag atggctggaa tgagccacag aatccgtgag agaactgatg 180
ctcttgatgc tgctggcaac acaactgctg ctattggaaa ggggtttgcc attggttcag 240
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tcgacgtcct gtaccccaaa gttttcattg gtttgattgt tggagccatg ctttcctact 360
ggttctctgc catgaccatg aagaagtgtg gaagcgcccg cctgaagatg gcggaagagg 420
tccccaagca gttcaacacc at 442

<210> 21686

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H11

<400> 21686

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gaggggtggg gtcgctgtgg acgggatcca ggagagcatg ttcgctctgc atttggcgct 120
ctacaacctc cttctgcgcc ccgactgcaa actcttcgtg ctgcacgtcc agccgctgtc 180
caacattgcc acgtgactca accgggcgcc catacgetta agcggcccta gcggtttgga 240

agtgcccgca ttcacgctgg cca

263

<210> 21687

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-F9

<400> 21687

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cggtgctcgt cctcccagcc ggagctggtc gggcgggcgg cggtcctggc agcggcgctg 120
ctgctgctgg cggcgggggc ggggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180
tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg 240
tgctgcagcg ggggtgcgctc gctcaacagc cgtgcgtcgt cggcggcgga ccggcaggcc 300
acctgcaact gcctcaagag catgactggc cggctcggcg gcggcgtcag catggccaac 360
gccgccaaca tccacggcaa gtgcggcgctc tncagcgggc tgcccatcag ccccacgctc 420
gactgcacca agatcaactg atcg 444

<210> 21688

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-H12

<400> 21688

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tgacaaatct ccaccagcag ttgtgtagaa atggctgatg gtgaggacat ccagcctctt 120
gtctgcgaca atggcaccgg aatgggtcaag gctgggttttg ctggggacga tgcaccaagg 180
gcgggttttac ctagcattgt tggccgtcct cgccacactg gtgtcatggt agggatggga 240
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tacccgattg agcacggtat tgtgagcaac tgggatgaca tggagaaaat ctggcatcat 360
actttctaca acgagcttcg tgttgcacca gaggagcacc ctgtgttgct cactgaggct 420
cctttgaacc caa 433

<210> 21689
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-H4

 <400> 21689

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 caactacccc ttcatcacca cggattacat gacctacatg ttcaagtacg acaccgtgca 180
 ctgccaatTTT aagcacatcg acatcaccct caaagactcc aagacgcttc tcttctgcta 240
 gaatccggtc accgtctttg gcatcatgaa cccctaagag atc 283

<210> 21690
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-E10

 <400> 21690

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 ccgccggcgc cgacgccggc gcgtcgcatt gatattggccc ccgcgtctgt ctacttcaat 180
 ccgcgctcgg tcgaggaaat cttcaaggac ttctccggcc gccgcgcggg gctcgtccgc 240
 gccctcacct ccgatgtgga cgatttctgc agcttgtgcg acccagataa ggagaatttg 300
 tgtctctacg gccttcccaa cgggagctgg gaggtgtcgc c 341

<210> 21691
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-E11

 <400> 21691

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 atttctatta ttctacctt ttgtttcatt tattctacca catcatatct tccctattta 180
 acttttacat tactaccttc acaaatttta ataatccaat caacaaatct ctatacttct 240
 ccactcctat tttctctatg atcactctta aaccattatc tcattaccct tcatccaccc 300
 aaattttaaa acccactgtt cacataaata t 331

<210> 21692
 <211> 283
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-E12

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 aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa caaaaaaaaa aatttacaaa aaaaacccta 180
 taaaaaataa acacataaaa caaaaattat taaaccattt tccaaaaaaa aaaaaaaggc 240
 tgccctttttt aaaagaccga agtttaaaca ccctttatat caa 283

<210> 21693
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-E2

<400> 21693
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 gcacttcacg ctctcattaa ttaatcctaa 210

<210> 21694
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-E3

<400> 21694

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agcattgata attccaaaaa gataatgcta tacattaatg gaccaggagg agatcttact 180
ccgtgtatgg cactatatga taccatgcta agtctaaaaa gtcctattgg cactcactgc 240
ttgggctttg cattcaacct ggcaggattc atccttgcag ccggtgaaaa gggttcacgc 300
actgggtatgc ctctatgccg gatttcactc caatcacctg ccggagcagc tcgaggacaa 360
gctgacgata tagaaaacga agcaaacgag cttatccgca tcaagaacta tctctatggc 420
aagcttcgcg ggcacacagg ccattctgtc gagaa 455

<210> 21695

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-E4

<400> 21695

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tgttctgatt ctacacttag tttggcttca ctctccatca ctc 103

<210> 21696

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-E5

<400> 21696

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gtgaaggaat ctgggcttgc ggataagatt gagctgggta tttgttctcc tttgtcaagg 180
accatgcata ctgcagtggg agtttttggg ggctaaagct gcagtaatgg tgtgagtgtg 240
cctccactga tgggtggagaa tgctggacgt acggcagttt caagtatgaa ctgaccacca 300

tctctcgctg ctgaggcctg caaggagcgc ttgggtgtcc atccttgtga caagaggagg 360
 agcatcacac agtacctgac tctcatacct gccattgatt tttcgctgat agagagtgc 420
 gaatatgttc tatgggtacc agatgt 446

<210> 21697
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-E6
 <400> 21697

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 cccaagatc taccgcatga agctctgggc caccaacgaa gtccgcgcca agagcaagtt 180
 ctggtacttc ctgaggaagt tgaagaaggt taagaagagc aacggtcagg tcctggccat 240
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 ccagagcaga accggctacc acaacatgta caaagagtac cgcgacacaa ccctgaacgg 360
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<210> 21698
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-E9
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 ttcatggagt ggatcgacac gcacacattt tcaggacgct gatgatggaa cccctttgca 120
 acatcaaagt tcaacagagc aatcaacaca gttgtagttg cttcccagca tatcaaccaa 180
 caattgaatt gaatctgtca atctgttgtg taacattagc taatatctgt tcgaaacctg 240
 ttgttaaatt gtatcagtag tgtaacagtt gctgagatgt gttcaaaaac tgctattttg 300
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<210> 21699
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-F10

 <400> 21699

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 tccgcaaggc aggcaagatg tacaacgcgc cgtcggccca ggagatgtcc tacttggagc 180
 acgtgcagag gcgccacgag gagaagggct gcctctacgc ctgcatcttc actgcgctgt 240
 gctgcttctg ctgctacgag acctgcgagt gctgcctcga ctgcctctgc tgctgctgca 300
 act 303

<210> 21700
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-F11

 <400> 21700

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 ggggacgttg tcttggttaa agaccacagag aaatctggca attttgttat tcgacgactg 120
 gctgccctgg aaggctatga gatggctctt aatgatgaga aggatgagcc gtttgtgctc 180
 gagaaagacc aatgctgggt cctggcagac aacctagtcc ttaagccaaa ggaagctaga 240
 gatagccgct tgtttgacc tgtcccaatg actgacatcc ttggcagagt gatatactct 300
 ttaagaaccg ctgttgatca cggctctagtc gagaacagcg gcatggccac gaaactggat 360
 ggtccagtac tggcagtgga gcttgatgtg gaagagttgg cgaagaacaa taaggcgtag 420
 acacttgatg ttttcgacat g 441

<210> 21701
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-F12

<400> 21701

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acgagtgggtg gaggaacgag cagttctggg tcatcggagg catcttcgac cacctcttcg 180
acgtcttcca gggcctactc aaggcgcttg ccggcatcga caccaacttc accgtcacct 240
tcaaggcctc ggatgaagac ggccacttcg ctgagctgta catgttcaag tggacgacac 300
ttctgatccg cgccaccagc aatctgatca 330

<210> 21702

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-F2

<400> 21702

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acagttgcac gcttgcacac cgttacaggt gaacagtcct aataccagta atcatgatat 120
atatacagga catggacatg tcgtgcaatg tataattggt acatgcatgt atttttcagt 180
tctactactt atcgtctttt ttcttctccc ttgtgttctt ttttcaacga acacagtctt 240
tgacgcattc tttttctttt tctttttttt gatattttat caatgtttta gcaagcagag 300
cagtgtggat actggatatg caccctatgt ctttttttgg ctgctcggca agccagcctg 360
atcaggtcag cgcgttggcc aaatggcgcg agaacgggaa cagccaaacc tgtatgagat 420
gcgtg 425

<210> 21703

<211> 104

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-F4

<400> 21703

tccggaatct cccgggntcg agcccagcgc gtgccggcaa caacaattgg tgacttcaaa 60

ccagtggatg atgtccttct acagtgtaca atgatgctcc agaa

104

<210> 21704

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-E1

<400> 21704

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cggcgcaggg ctaccctccg cagggctacc cgccgcagta cgcgcagccg ccgcctccac 120

agcagcagca gacgagcggg ccttccttca tggagggatg gtacgttctt ggctccccc 180

cttttgtgcc gcgcagccgc tcataagttg ttcctagatc ggagtgtctt cgaaaatttc 240

ctcgctaggt tagatggtag gcaccttctt tcggctcacc ggcggcggcg gcgactgccg 300

tgctggtgcg gcacgttggc ccctgtgggt ggggtggggtc tggacttgac gcgtgaacca 360

cccttgga aa agggcgccgn cgnccagcca cgccagcca ccctcggtgc cttccgtggc 420

gacgtgtcng ttgctacacg caaaggtagg 450

<210> 21705

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-F6

<400> 21705

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ccggcgcaact tccgctctcg agaaccgcc gcgtccctc gcacgtccc tctctccgcc 120

gactccaaac cctaaccgc gcgttacct cctcgctccc tcaggccatg gcgtcgctccc 180

ctacccccaa gaaggtgctg gtcccgatcg cgaatgggac ggagccgatg gaggcggtca 240

tcaccatcga cgtgctccg cgcgcgggg ccgatgtcgc cgtcgcttcc gtcgagccgg 300

ggcgacgct cgtagctgcc tcattgggca tcaagcttac cgnccagcg ctctcgccg 360

acctcgcgga cgatgagttc gatctcatct ctctaccggg aatgcctggt tcttcgactt 420

ttggagagtg c

431

<210> 21706

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-F8

<400> 21706

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ctgatgataa ccgcaggcac ggatgagacc atgatggacg aaatatatat gcgaatagggt 180
ca 182

<210> 21707

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-B3

<400> 21707

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gatggagaga ttgcatagtc ttgaggagga acacatgaat gctcttcaga gagcacagac 120
cctggatgaa actcatgctg ctgacctgtc tgaagaggag attcatgagg atagcactga 180
aacatcctct gataactcata tctaaacaa 209

<210> 21708

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-D11

<400> 21708

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tttgggattg tgtctgctgt ttgtgtctcg ctggtagagt ccacagcctg ctacaaagcc 120
gctgctcggc ttgcgagtgc gactccacct ccggctcaca tctcagcag aggcattggg 180

tggcagggaa tcggcatcct ccttgacggg ctctttggaa cggggactgg ctccactgtc 240
 tcagtggaga acgtcgggtt gcttgggtcg acaaggatcg ggagccgacg ggtcatacag 300
 atctcagctg gcttcatgat ctttttctcc atgctgggga aatttgagc cttgttcgct 360
 tccatcccgt tcaccatctt tgcggccgtg tactgcgtcc tgttcgggct agttgctgcg 420
 gtggggc 427

<210> 21709
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-001-Q1-K2-H1
 <400> 21709

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 ctggcagcct ggcatgcttg acatcaaaca ccactgcgac tggcaccaaa gaccttaaac 120
 caagcacaac gccgttgaac tttaacagcc tatcaaagca agctccaaca tcagggagat 180
 gtttaggtat cctacccttg tccgttcctt cttttatcaa gcaatcgttc cttcttttat 240
 caagcaaagt ttacttcgag taatacttga attaaagggtg tcggtttaca acaagtgcag 300
 ctggtacca cagaagaaaa ggcaccagtg ctgctatgtc tcccgaatcc aaaactgtca 360
 aatatgccct cggcgtcgtt gattccat 388

<210> 21710
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-002-Q1-K2-A1
 <400> 21710

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 ccggccgacc gacgccgagg ctgcgcgcc tgcgccggga tcgagagggg aaaggggaagg 120
 ggaccagccg gctcgcttgg aggctggagc tcgccccggc gggcccatgg ggggacgcct 180
 ggtgtccatg ctccgggtggc cgccggacct gggcctgcc agcctggccg cgctgctccc 240
 cgcgccgccc ggcacctcc ggggtccagg ccaggagtgg tggcagtggc agcggtcgcg 300

gccccgagcag ctgggcgcgg cggcgcgggcg gtggccccgag ctcgctg

346

<210> 21711

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-A5

<400> 21711

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aaggaaaagc tgcacagaa ttgacacttg atgggtggga tagtattgct ctggaatatt 120
ctattgactg gcctctgcag ctcttcttca ctctgatgt tctgtccaag tatcgcaagg 180
tttttcagta tctcatccga ttgaagagga cacaatgga acttgagaaa tcctgggcag 240
ctgtaatgca taaagaccat gctgattttt ctgattattg caaggatcgg aaaaataact 300
ctgcaacaca actgcgtcga caacggtcta agcctttgtg gcgagtaagg gagcatatgg 360
cattcttgat cagaaaccta caattttac 389

<210> 21712

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-C11

<400> 21712

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ttcttcaaca tgtacagctc tacagctgat tctattctca actggtgcaa ggtttccaga 120
tagcagggca cacaccattc tgacacacgc aaattttgct tgttaagtgt tacatgatcc 180
aggggcctaa caattgtcaa gatccaagga gtttctagtt catctaccaa ggttctatat 240
atcctgattg aatgaagtcc gatatgacat atgggtgaagg agatatcacc ctgatgggat 300
ggctgcccgt ctatgccag gctgccgccg tcctggtcag ccagatccga taattttaaa 360
cacgataatt ttaaac 376

<210> 21713

<211> 413

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-002-Q1-K2-C12

 <400> 21713

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 ttgaaacgtc aagatgggta atttcggaaa gaaattgatg gctgatcaag tggaagaatg 120
 gaaaggatac tacatcaatt acaagctgat gaagaaaatg ttaaagcgat atgtccaaca 180
 gactcaacat gatgggaaag accgcgaaca agttcttaaa gacttttcaa ggattcttga 240
 tgaccagatt gaaaggattg tgctttttct gctacaacaa caaggccatc ttgctagtag 300
 gattgaggaa ttngagaaa aacgcactgt tcttctggaa gagtatgaca taccacaagt 360
 ttatcagcta catgatgcat acagaaaagt cgggcttgat ctcataaagc ttc 413

<210> 21714
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-002-Q1-K2-E10

 <400> 21714

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 tgcattctgg ttgatggata aggatatgta tgatttcatg gctctggaca ggccttcaac 120
 gcctcgcac gatcgtggga tagcattaca taaaatgatt aggcttggtca caatgggttt 180
 aggaggtgaa ggctatctaa atttcatggg aaatgagttt gggcatcctg aatggataga 240
 ttttccaaga ggtcctcaaa gtcttccaaa tggtccgctc attcctggga ataacaatag 300
 ctttgataaa tgccgccgta gatttgacct tggagatgca gattatctta gatatcgtgg 360
 tatgcaagag tttgaccagg caatgcagca ccttgaggga aaatatgaat tcatgacatc 420
 t 421

<210> 21715
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-E12

<400> 21715

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gactaccaca gctttgttca tgggagggtg tcttatgaca aaatcaagcc tgatcctgtg 120
cttaggaaca tcctcctcag cttaccatt cgcaacttg tggtcacaaa cggtgacaga 180
acacatgctt caagggccct caagaggctt ggcattgagg attgtttcga aggagtcgtg 240
tgctttgaga cactgaacct gacatctcct gctactcctg tcccagctca tgaacttgaa 300
atctttgatc taatgaagca tctgggtcat ccacagcccg cggtcgagct accataatca 360
cctatcctat gcaaaccgtc aaggagggcc atgctgcagg ctct 404

<210> 21716

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-F6

<400> 21716

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acacataaca gaaaccatta ctaaccaagt aaaattacat gagagtacac atcaaacctg 120
ttaacattca aggcattaga acctccatct ggaatccaga ttctggatgg tcatgtacat 180
caatggtcag cattccatca aatttactag agatgtcatt tgtttgttta acatcattac 240
tgtcctttgc acgtccagaa accttcacag ttgtcgtata tccacaatgc ttgacaatca 300
ccaccccgag tggtgaagaa tcctggatgc atataaagag aggcattgcaa tatccatagc 360
accggtttga cag 373

<210> 21717

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G6

<400> 21717

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tagtcatcca aagttcatca gtgatactaa agtcgctata gatgatgctt ataaaagcac 120
 cgacagtga tttcttagaat ctgacagtag tcaaaatcaa tgcgggtcaa ctgcatcaac 180
 tgctgtactt gttggtgatc gtctcttcgt cgcaaagtgt ggtgactcta gggctatcat 240
 atgcagggaa ggaaatgcta ttgctgtttc aaaggatcac atgcctgatc aaactgatga 300
 gcggcagcgt attgaagatg ctggacgttt tgtgatgtcg gcaggaacat ggcgcgttgg 360
 tgggtgtactt gctcgttcgc gtgcttttgg tgacaaactc ttaaagca 408

<210> 21718
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-003-Q1-K1-C4

<400> 21718

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 acccggttgg ccaccgctc gctatggatt tggatctgtg gatctccaag gtcaaggagg 120
 gtcagcacct cgcgagcac gagcttcagt ccctctgcga atatgtgaag gagatcctca 180
 tcgaagagtc gaacgtgcaa ccagtgaaca gccccgtgac ggtttgcggt gatatccatg 240
 ggcagttcca tgacctaatg aagctcttcg cgacgggggg ccacgtccca gagacgaact 300
 atattttcat gggtgattnt gtggaccgtg gcttcaatag tctagagggt ttcacatcc 360
 tattgctact aanagcgagg tatcctgcac acattaccct tctgctgga aatcatgaaa 420
 gtaggcagtt gacacagggt tat 443

<210> 21719
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-D11

<400> 21719

aagcaacata gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatat 60
 gtgggggtcct tatgctcctt gctctttcta catgtgttgc taacgcgaca attttcctc 120
 aatgctcaca agcttctata gcttcccttc tttccccata cttttcatca attatagctt 180

caataatgga aaaccccact tttcaaacac ttagggctta accaggcatt tgaacaaggc 240
acataacctt aacggccttg gtggtttaac ca 272

<210> 21720
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F8

<400> 21720

aaaaaaaaa aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaattaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaagggga gga 83

<210> 21721
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-004-Q1-K1-A11

<400> 21721

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tggtttctca ttatctggtg ttcggtgtcc tggtaaaggc gagccatact cagatgaagc 120
tattgctttg atgaggagaa ggatactaca gcgtgatgtg gagatagagg ttgaagcagt 180
tgaccaaacc aggaacattc ataggttcgt tgtgggagtc caagaccaac atgggctctg 240
tactttctgga agctgggctg gcgaagctga gttcttttgg cttggatagg atgtcagatg 300
ctcatgtcct aacaagagct gaacagtttg cgaagcaaca aaagattaag atatgggaga 360
actatgtcga gggtgagaat gcttcanatg gatccacacc tgaatcgaaa c 411

<210> 21722
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-004-Q1-K1-C5

<400> 21722

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 gtatcaacac gcgatgacga actcactaaa gactagttag caaatggcc aaagtgggac 120
 gatgagcacc ttgcgcatgt ctaatctact aacctatgtc ggacaacttc a 171

<210> 21723
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-D2
 <400> 21723

tgggcgaga gaatcccaa gcaacaaac agggtagagg gagaggagag gagaggagag 60
 gagagggttg gtctgggaca ccatggctcc gatgaagctg tacgggtgcgg tgatgtcgtg 120
 taacgtgacg aggtgcgcaa cggctctgga ggaggctggc tccgactacg agatcgtgcc 180
 catcaactga gtcaccgacg agcacaagag ccccgagcac ct 222

<210> 21724
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-004-Q1-K1-G4
 <400> 21724

tcgaaaacgg cctgggttgca cacaaaaatg gccaaactaat tggaacccaa agtttgaaat 60
 catggatcgg agaagacaag ctgaaggaat ttattaactt cactcttcat tatattgctg 120
 acttgatat cccaattaaa aggggtacat tcatagagtt ccgaagtgga atgattaatg 180
 tatctcctat aggaagaaac tgtatccaag aagaacgtga tgaatttgag aagtacgata 240
 aggtgcataa catccgacct ta 262

<210> 21725
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-005-Q1-K1-A1
 <400> 21725

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 agtgaatgca agcgtagtc tgacagccaa tctgttagcc aacctctctg ctgcctttgg 120
 cactaaggct ctgcagttg gtgcagaaat ctcatattgat tctgccactg ggaacttcac 180
 caaatacaat gctggattga tgttcactca tgaagacctt atcgcatccc ttaatatgaa 240
 caacaaggga gacaacctta ctggagctta ctaccacaag gtgagcgaat tgacaaacac 300
 agctgttggg gcagagctta cccacagttt ctcgaccaat gaaaacaccc tcacctttgg 360
 cgggcagcac actctggacc cactaaccgg cttgaaagga cgcattaaca acttggggcaa 420
 ag 422

<210> 21726
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-005-Q1-K1-D7
 <400> 21726

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 caagacatag gagatgggtg atgatgtcaa tgatgtgtct caatccaata gcttgttcgt 120
 ttatggattt gcaattccct aatgggcaac taacatatgt tgctgggtgag gggatatcag 180
 ccagtgggtt tcttccgtta tttgggtgggt tgcttcaagc tcaaggaaaa tatcctggag 240
 aaacaagagt gagcttttct tgcaagaata agcgtggcac aggggtttact cctatgtttc 300
 aatggcctga caagtctgtt tcgttaggag ttcctcaagc ctt 343

<210> 21727
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-006-Q1-K1-A1
 <400> 21727

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 cagatttggt gtgggtgtagg agttgtatgg ttaagactta taagacttaa gacttatgta 120
 tcgtgtgggt gagagttgaa acttatttgt ggatt 155

<210> 21728
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-B8

 <400> 21728

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 ctggacgagg gcctggacgt gccgcacgac tgcaagctcg gcgtgtgcat gacgtgcccg 120
 gcgcggcttg tctccgggac ggtggaccag agcgacggca tgctcagcga cgacgtcgctc 180
 gcgcgggggt acgcgctgct ctgcgccgcg taccgcgct ccgactgcac catccgcgctc 240
 atccccgagg acgagctgct caagggtccag ctgccaccg tcgacgactg actgacgctc 300
 cgtcgatgac cagcggaccg gccagcaggc atcaacctcc gccggtgtaa tgatgtccct 360
 gagacttgta caccattggt gactagtagc actagtgaac gagcttttct cgagaataga 420
 tgctgtgtga tatgcctctg ccaaatttct ggtatccaaa tcgagcatt 469

<210> 21729
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-D2

 <400> 21729

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 aggctgtgca gttttgagct tgtttcttga gtcgtttcag acagtttttt cagttttctg 120
 tgcagacatg tgctcgtctc tactttgtca aaaaaaagat agaattattc agactgcagt 180
 tttcagcttg tttgttgatt gggtttattg agttttcagt tttcaaaaaa aaaaaaggca 240
 aaatgctgca aaatataatg cttcatgaag tcaataaata catattta 288

<210> 21730
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-E3

<400> 21730

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tgacgactcc tcttcccgtg gtcggaggat gagggatcgg ccaagaggaa atgtttccat 180

tccgaaagct tacacgccta atgctgcttc atccacaaca aagaat 226

<210> 21731

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-E5

<400> 21731

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ctgtgttgtc acttaacaaa cattcatgct tcagctaacc gtcagccggt cagaattggt 180

tactagtgtc gtgaaaactc ttgctggatc tgatggccga atgagttggt ttcagcaact 240

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ggcgacgatg tgc 313

<210> 21732

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-006-Q1-K1-H1

<400> 21732

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ttactgtttc ctggaatcat atattctgct tgccatttgt tgtgattttc ggtgccaaaa 120

ggttactggt tcttgaacaa gtactagctt catattataa ttacaggaaa caataatgat 180

aatatgtatc tagtactcga tcatgaaatt gaacagctac aatgctactt gtctaataa 240

gaaactcc 248

<210> 21733

<211> 98
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-006-Q1-K1-H6

 <400> 21733

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 cagaagtgtg acgtgccgga aaaaaaaaaa aataaaaa 98

<210> 21734
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-A1

 <400> 21734

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 tttgagtgcc ctcaatgggtg tcaaggtgtg gactcaagtc aatagcttcg ctgttctgat 120
 gatgctctgt ggaaactcga atcctttcca cctgaaaacc aagtagtatg tcttctagtg 180
 ctggaattaa ccctagtgcg tatatacata tgaaataaaa aaaaagccaa aaggaggagt 240
 aacttattt 249

<210> 21735
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-007-Q1-K1-B8

 <400> 21735

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 gaaccacaga ataactatgg aataactgag taccctaaacg ca 162

<210> 21736
 <211> 167
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-B9

<400> 21736

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ccgagcgtgg ggggcagctt cgccgtttgg ggcggcctct tctccacctt cgactgcgcc 120
atggtgtacg cgcgccagaa ggaggaccct tggaactcca tcgttgc 167

<210> 21737

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-007-Q1-K1-F9

<400> 21737

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cgtagcggtc ggcgtggtgg ccgcggtgct gctgctggca gcggcggcga cgacctcgga 120
ggccgccatc acctgcgggc aggtgagctc cgccatcgcg ccctgcctct cctacgcccc 180
cggcacggng tccggcccct ccgcgtcctg ctgtagcggc gtcaggaacc tcaagagcgc 240
cgncagcacc gncgncgaca ggcgcgccgn ctgcaactgc ctcaagaacg ccgccagggg 300
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<210> 21738

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-007-Q1-K1-G12

<400> 21738

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taagaggaca tgtactcgag atggccttaa tagctaccg caaccaagaa ctcttccggc 120
accttcataa atcaagtcca gctacaagct ggcggcggcg cggcgactg tggctgggtg 180
cagtctcagc aacagcaagg tactgtggct cagcagccgc cgccgccgtt caaccgcagc 240
cgtacggggc atacttgaag caacagtaaa tatgacatta ttacactaga atcacggaac 300
gacaggagta aaacggcaag agtaggctta tgca 334

<210> 21739
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-007-Q1-K1-G5

 <400> 21739

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 ttgggatgga agctgctggt atccacgaga ccacctacaa ctccatcatg aagtgcgacg 180
 tggatattag gaaggatctg tatggcaaca tcgtcctctc cgggtgtacc actatgttcc 240
 ctggcattgc tgacaggatg agncaggaaa tcaccgcctt ggctcctagc agcatgaaga 300
 t 301

<210> 21740
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-008-Q1-K1-A2

 <400> 21740

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 ctcgacggag caccggcgga cgtactacga ggacatgcag cgcgccatct tctgcctgtg 120
 cccgctgggg tgggcgcgct ggagcccgcg gctggtggag gcggtggtgt tcgggtgcat 180
 ccccgatgat atcgcggacg acatcgtgct gccgttcgcg gacgccatcc cctgggagga 240
 catgagcgtg ttcgtggcgg agcgggacgt gccgcgcctc gactccatcc tcacctccat 300
 cccgctgccc gacatcctgc ggaggcagcg cctgctggcg agggactccg tcaagcgggc 360
 gctgctgttc caccagcccg ccaggcccgg ggacgccttc caccaggtgc tcaacgggct 420
 ggcgcgcaag c 431

<210> 21741
 <211> 348
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E12

<400> 21741

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cgctcctcct gctggcgctg gtcgtctccg ggactgcct ggacgcgcac caccgcgggc 180

tgaagcgcgg ccggcggaag caccgagattc actctccgat caagacggtg gtggctcgtgg 240

tgatggagaa ccgcagcttc gaccacatcc tcggctgggt ccgccgcacc cgcgccgaca 300

tcgacggcct caccggccgc gaggccaacc gcctcaacgc ctccgacc 348

<210> 21742

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E3

<400> 21742

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gcagtccggt gcccgctgca gatcatggag gaagaagcat ggcaagagt tctgcatggg 120

tcctgagagt cgcgtgagca gcgaagcagt tcacggatgg ttggatggag ggcaatgacc 180

agctgctgag ctgctgctgc tcctcctggg cgaccatcag tttgtatttg tccatgcctc 240

gtgtagccgg ccgtcttctt gccctggctt gtccagttcc ggaaggcggg caagcccggg 300

gaggcgtgga cagagaccgg caagtcagaa atcggcaata gtgaactcca gcaagagcct 360

acttgactc cttatttacc cgttttaag ttcccttctt cgtgctgttc ctctcttcc 420

ttccgttctt cttgtct 437

<210> 21743

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-E4

<400> 21743

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ggcggggcct cgccatccaa gtcgcaggaa cccaccaaca ccggcgcggc cgtcactgct 120
gacgccggcc agggcgcggc gaccggcgcc tcgcggtcgc agtcggtcac gcggtcgcg 180
gagtctgcca cgacgaggct gcaacgcatg agccacaggc tgagcactgc tcgagcagca 240
catggaaaca ctggaggccg acgttgccaa ggccagcacg gactcgtacg agtagagtac 300
tcctaggtag catatcttag cagacgaacg agcttggtcac gctccagcgt cggattcagc 360
atggctactc caccagccag tgctatctat tgctcgggcg gctaagtata taatttttaa 420
gaggatcat 429

<210> 21744
<211> 407
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-008-Q1-K1-E7
<400> 21744

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agcagtggga atttgggggt gcaaggactg tgggaagggtg aaggctgggtg gtgcttacac 120
catgaacact gctagtgcgg tcaccgtcag gagcacgata cgccgcctga gggagcagac 180
tgaagcatga tatagctctt tatattattg ggggttcctg tagttgctct tgtcaagcat 240
gttgtggggg ccttatctag tggaaatgtg gaatcactgt actgggctgt ttgccgagac 300
aatgctcctt atatttggtt tatgccttta ggacctaaaa gtgggggtggg gaaaattggc 360
cttggttacc ggtcttgatt ttgccaatgg atattgatcc tgntgcc 407

<210> 21745
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-008-Q1-K1-G2
<400> 21745

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ttgctgggtg attggaatcc ttcggccact caggtttctt agtaaactta caggagattg 120

ccccacaata tgctggagtc ctacatggaa tgtcaaatac agctgggaca tttgctgcca 180
 ttctaggaac tattggagca gggttttttg ttgataggat gggttctttc cgtggatttt 240
 tgatattgac gtcgctctta tacttcagca gtgctctttt ctgggacatc tttgctactg 300
 gagagcgtgt tgattttgat ggcactggct agcaactcag aggaactctg cggttttctg 360
 tccttaaaac acataatgtt gattcaagac aatgttttta ccggcaacca tcaagaagtt 420
 atttgcacct gatga 435

<210> 21746

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-G5

<400> 21746

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 aaggtcagga aggtggacat gcttgatggc gtgaccatcc tccgggccga gaaggtcaag 120
 gatgagctca tccttgacgg aaacgacgtc gagctcgtat ctgctccga cgacctcatc 180
 aaccagaaat gccatgtgaa gaagaaggat atccgaaagt ttttggacgg tatctatgtg 240
 agcgacaagg gcgtcatcga agaagaacaa tgagcgaca 279

<210> 21747

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-008-Q1-K1-H10

<400> 21747

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 cgatgagctt gcatctgcct ttgatccgtt tgctgaggca aatgctgagg actctggagc 120
 tggctcctgga acgaaagatt atgtgcatgt gcgcatccag cagcgcaacg gcagaaagag 180
 tctgactaca gtccagggtc tgaagaatga gttcagctat aacaagatcc tcaaggatct 240
 gaagaaggaa ttctgctgca atggtactgt agttcaggac ccagagctag gccaggatcat 300
 tcagctccaa ggtgatcagc gcaagaatgt tgctactttc ctagttcagg ct 352

<210> 21748
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B5

<400> 21748

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 ttgggcgggc tctttcttcc ggagactccc aacagcctca ttgagcgcggt gcgcgtggag 120
 gagggctcggc gcgtgctgga gcgcattccg gccacggccg acgtggacgc cgagttcacg 180
 gacatggtgg aggcgagcga gctggccaac accgtcgagc acccgttccg gaacatcctg 240
 cagccgcgca accggccgca gctggtgatg gccgtgtgca tgccggcggt ccagatcctg 300
 acgggcatca actccatcct cttctacggt ccggtcctgt tccagagcat gggtttcggc 360
 gggaacgcg 369

<210> 21749
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-C1

<400> 21749

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 gaagaaggat ttagagactc aattaaatga gcttaaaaat atggaatcaa tggcaagtga 120
 acaacatgga agaattgaga aattgactga tgaattaagc agaaaagatc aagaaattga 180
 aggtttggtg caagcactcg atgaagaaga aaaagagctt gaaatcttgg agaataaaaag 240
 ccttcagttg gagcaaatgc tgcaagagaa agaatttgcc ttgaagacct cagaagtttc 300
 taggaccaa gctttggcaa aacttgcaac gactgttgac aaatttgatg agctgcatag 360
 cttgtctgag aaccttcttg ctgaagtgga aaaccttcag ttgcaattgc aagaaagaga 420
 ttctgagatc tcatt 435

<210> 21750
 <211> 362

<212> DNA
 <213> Zea mays
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 cgctcgatcat caacaaagac gcggacggcg gcagctacaa gcgggacgag tcgatgccgt 180
 cgaccccgac gacgccggtg acgccgtcgt cgtcgacgtc gtcgacgacg cctctcgctg 240
 ccagccacgt gcggcacacc gttgttcagc acgcgtgcag agtagctagc tatggcatct 300
 acgcagaccg tttcaaccgg catcaggata gatggaccag cgactacgac tgactctaca 360
 gc 362

<210> 21751
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-E7
 <400> 21751
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 aagcttgatt ttaaagggtg aaatgttcat attataacaa gcaatgaggg ctgggaccag 120
 aagattgcag aagcaaacag agatgggaaa actgttggtg caaatttcag cgcttcctga 180
 tgtgggcat gccgtgtcat tgctcctgtc tatgctgaaa tgtcaaagac ttatgctcaa 240
 ctcatgttct tgacaataga cgttgatgac ctgatggact tcagctcttc atgggacatc 300
 cgtgcaaccg cgacattctt cttactcaag aacgggcagc agatcgacaa gctcgtgggc 360
 gcgaacaaac ctgagctcga gaagaaagtg ctagc 395

<210> 21752
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-009-Q1-K1-F1
 <400> 21752

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cgccggacca gcagcggctg atctttgccg ggaagcagct ggaggatggc cgcacccttg 120
cggactataa catccaaaag gagtctacgc tccacctcgt gctcaggctc cgcggtggca 180
tcattgagcc ctgcgtgcag gcgctcgctc gcaagtacaa ccaggacaag atgatctgcc 240
gcaaatgcta tgcacggctg caccctaggg ctgtcaactg ccgcaagaag aagtgtggtc 300
acagcaacca gctgagggcc aagaagaaga tcaagaactg aggtgttgct gctagtcagt 360
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<210> 21753

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A2

<400> 21753

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gtactcatcg cgcgcctgct cgtcgtcgac cccgccaaag gcgcctccat cgccgagatc 120
atgtgcactc cgagactcag gaagggttc gtgccgccca tgctttctcc cacagggaca 180
cccaagaaac aacagctcga cgaaagcact ggctcttcg acaacgacga cgactacaac 240
agcaacagtt accactctgg caccacctcc actcgatcat gcaacgcggt ccagctcata 300
tgcgccatat cctccaggtt cgacctgtcg gggctgttct agag 344

<210> 21754

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-A7

<400> 21754

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ctgactgggc agaagactta acacggtcga aaagctaaag cctatgggag agcagcaacc 180
gggtgctggag atggagctgt agcagcagca ccaggaccag ggaggaggcc tccttgtcca 240

ccagcaggcc taccctacct ggcctgaag cgctccggcg gcttgcgagc cctgcgcttt 300
 tcacgggatc ggacgcggac gatgtgagcg tggatcgcg acgagacgca gtggtgcacc 360
 ttggcgtaga gcttcgggag gacgt 385

<210> 21755
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-010-Q1-K1-D4
 <400> 21755

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 ctgaggctgg cgtgagcggc ggttacaaaa cacaccacac cctatgagct agcgtgatag 180
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 gtaccatccg gagagcatgt cgaagaggat cccggctccg acgccgacgg ccaggtcgat 300
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<210> 21756
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-010-Q1-K1-D9
 <400> 21756

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 cacttcgagg ccgtgtcggg gcttcgggtc gtcgacagcg gcctcagatg cgtcggggtg 300
 atcgtcaaga acgaccgggc aagagcctgt catgggtcca agacgaagat atcggaagtg 360
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atgctcaaa

429

<210> 21757
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E10

<400> 21757

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agggaaatcgg aggagaaagc aaagcttctt gttgaagaga gagatcgctt gcttacagag 120
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aaggaggatc tcttagccct tgtggatgct ctacaatccc aaatacaaag gcaagagact 360
agcacgatac aggtctgcga agagagctcg gaactctgct cgactgcctc gaagcacatg 420
gaggatga 428

<210> 21758
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E12

<400> 21758

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cggcaacgag caccgcacca ccaggatcca ggtttgtgct gcgagagcgc ctatccattc 120
accatgatta atttcgtgct cctgatcagc cgccagggca aggtgaggct caccaagtgg 180
tattctcctt acaccagaa agagaggacc aaggtcagta cccacactg ctctgtgtga 240
taactcgtgt aattcagttc cgggggttgct ttattcatca ctggcagagt ggcagtgggt 300
gctaatttct gcaggagtta aggctatgca tgctagtttg tgtcaggact ttgcagtcac 360
gacttttgtt cccaacaaat cgatgaacat tagaagtga tgaatagttg ccatgttgta 420
ac 422

<210> 21759
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-E9

<400> 21759

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 agaaaggcat gggctctgctc gtctggagaa ttttgcttgt gcactcgaac tgattggaca 180
 aaagctccaa atggatacac tgcaaagccg acttgatgca gagtttcttc tagctcatat 240
 gtgttcagtc aagtttaagg aatggatcgt gctgctagct actctggcgc ggcgtacaaa 300
 ggttttgcgc ggatctcttt catcatgata tgcgattgtg gaaagcatat agcattactc 360
 tacagtcaca tgatgtattc agggaatatc ttgaccttct taatatcttc gaagaacagc 420
 ttttcg 425

<210> 21760
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-010-Q1-K1-G10

<400> 21760

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 ctggcgctgt tcgaggcctg gctcagcatc ttgctcttgg gattcatgtg cgctcaaagc 180
 accttccttg tatgctaata cttgttatcg tagtaccacg aatccgccac attgtgggtat 240
 aactgtgat acagcattgc tgattgtgaa gttacaatth cggttagcat ttcagtc 297

<210> 21761
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-B11

<400> 21761

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gttcacggct ccaggcctac aatatctggt ttcccatccg acggcagaaa actttccaag 180

catccactgg taggtacaca ctttgatgat tcgttaatct ttccactcca gccagacaaa 240

acccaatctc ccatgtacat caagtggcac ttagtcattc aaacttgcac tctctttctc 300

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<210> 21762

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F9

<400> 21762

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aacggcaagg ggccccagga cgggctcacc ccggagcagc gccgtgagag ggacaagaaa 180

gcgctggagg agaaggcggc gaagaaggcg cagcaggcag cggccggcgg caccgggacc 240

tccacggaca acaagaataa ggcagggtggc aagaagtagg ccgcagcggc gagcggcgcc 300

acctctgtac gattatcgat ccatgccttt agcttgtaac ctgttcgcat cctcgtagat 360

gcgatgcttg ttgggtcata aactcgtttt ctgttactct gatatcaaaa tttggtgatg 420

agaataaa 428

<210> 21763

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G11

<400> 21763

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gctccccatt gtggcggaat ctttagtggc ggccgtgtgtg ccatacatgc ctggtgaccg 180
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ctgctgtata ctctcgtggc cacagaccct ttgagcgcct cctgatacag ctttgtcacc 300
actctgatca ttgcctcgat gaatttatat acctgacgtt atggattaaa aagaatgaaa 360
gatgtgatct tgagtgtgtg cacacaac 388

<210> 21764

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-G4

<400> 21764

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gcttcggcca tctctcaggc tcccagatcc cagcacaccg catctcctct actctccggc 180
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gctttcctgt ctagaattaa gaagaacaga gaaaatatga atggcaagaa gatttggctc 300
cgtagatcct ctattttgcc ggaatttggt gggttcctctg tgctcattta caatgggaaa 360
actcatgtcc ggtgcaagat cactg 385

<210> 21765

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-H1

<400> 21765

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ggcggtgcca cgcggtggaca gccaaaggcca gatgtgcggc tccatcttca aggtcgacag 180
cgagagcaag aagaagcagg acgctagcat ccccgcgctc ggcagtgtct ccgactggtc 240

caaccagttc tgaccatctt cttgctatcc attgtcccgt ctactatacg aggtgcagag 300
ctgtgtatct gatgaatcca tgagacgatt tctgctacgt ttcttgacacg cttgtcgaac 360
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<210> 21766

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 21766

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gctggacctc tgttgaccc ttggtattcc aactccgaaa gcaaacatta gaaaggaaga 180
tattgtgtca aagctgttg acttcattgc tgaacctcac tctgcagctg aatcttgggg 240
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gacgcctgat ggcacaccta gtaggtcgag gaagaaattt gtcgatgacg gtacttctag 360
taaaaggcag aataaagcgc tccagtatga tactgangaa gatgaatcca tgaagtctga 420
cagt 424

<210> 21767

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-B12

<400> 21767

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cagcccgaat ccatacagat ctttaacccc ccacctacc agaatctgga aacccccca 120
ggaaagcccc caacgagccc acttttaagg ccaatgaca 159

<210> 21768

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-C7

<400> 21768

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ggtggaggct acggcgggtg tcgtggaggc tacggcggcg gtgggggata cggcgggtgca 180
aaccgcgccg gcggctacgg caacaacgac gggaactgga ggaactgagc ggtgggggtcc 240
gctgaggcct agttatcttg ttcgcttctg ctaccgtgtt caccctagtc tagaggggggt 300
ttatcttcgt ctgtggctgt ctcgtgtccg tatgtttcgt ttcgtgttcg ttgttgttgt 360
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<210> 21769

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 21769

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ggcggaggcg agcatcaatc gccatcggca ccgctcgggc tctcttgtag cttcatcgcc 180
acgcaacgcc taagataatc cacggaagcg tcaaggccac caacgtgctg ctggattcag 240
acttccgggc gcacgctggc gatttcggtc tggcaaggct tattcccgac gacggaacgg 300
accacgcaaa gatagccagc agcgagagcc agcgaggcta ccttgctccc gactacgccg 360
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agc 423

<210> 21770

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-D8

<400> 21770

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caacaccagg aagaccacca agatgccggc ggctggactg aggagggccg gcggccgggtt 180

tcctcttgcg cgggacgtcg ggagcagcgg cgccaatgag cgctcctcct cggtcgcgcg 240

cggcttcggc ggccggcgtt caatgccgcg cgcgttgctg gaggactcgg cgcgggcgat 300

ggacgcccc gcgacgaccg gcagggagcc gccgccccg gcctcagccg cggcgtcgag 360

ggtcacgccg gcggtgctgt tcgtcacggt ggtcctggcc gtggtgctgc tcgtctccgg 420

cctgctccac g 431

<210> 21771

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-E7

<400> 21771

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caaacggggc agggccaggc ccaggcgagt gaccagtcgt ttcacgctca cacgaaacgg 120

acaatgcgct ttatcaatca gtgaagtgcc ctccactcca ctccacctca aggatgcagc 180

gccgagtagg tccggtacct gtactccgac gccgcgtcgt cggccggctc gctggagctt 240

tggtatttgc tgcggcacgg aacgtagtgt ttgaccgggc atgacttggg ctggcggagg 300

aacttggcgc agtcctcgtg cgagcgctgg ttgggcgccc actggatgca gttgcggtcg 360

acgttgagcc tcccttcctt gatca 385

<210> 21772

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-012-Q1-K1-G12

<400> 21772

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ttaaaaaaat gacattatac acc

83

<210> 21773

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-B11

<400> 21773

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ccaagaccta cccgcagcag gctggcaccg tccgtaagaa cggcttcacg gtcacaaaga 180
accgtccctg caagggttggt gaggtttcta cctccaagac tggttaagcat ggccacgcca 240
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catcacacaa ctgtgacatt ccgcatgtga accgtactga gtatcagctg attgatattt 360
ctgaggatgg atttgtgagc cttcttactt cagatggcaa cactaaggat gatcttagac 420
tcccaactga tgagactctt 440

<210> 21774

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-D7

<400> 21774

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gtgcaacttc tgcaaactgc tgaatttgac atcaagaaag aagcagcctg ggcaatttca 180
aatgccactt ctggtggcac acatgatcag atcaagtacc ttgttgccca gggttgcatt 240
aagccactct gtgatctgct tgtttgcccg gatcccagaa ttgtaacagt ttgcttggag 300
ggtcttgaga acatcctgaa agttggcgag gcagagaaaa atcttgggtgc aggcgatgtc 360
aatgtttacg cacagatgat tgatgatgct gagggcctgg acaagattga gaacctacag 420
agccatgaca aactgagat atatgagaag gctgtcaaga tgct 464

<210> 21775
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 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-013-Q1-K1-D8

 <400> 21775

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tggttggttg cccaatgcgt ggctgggaga tgtggcaggg caaggcttgg gcgccagtga  180
tgggtgcatag gctaggtagg agagcacagc agggaattag tatgggacta cattcatgaa  240
tatatgtaag gccaaagtac aaatcctatc cttcctcaat acaagctcaa ctgaattcta  300
atccaatgta tcaatatctc tagctaaca accgatgaac tcatctncta aacaaaaaag  360
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<210> 21776
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-013-Q1-K1-F10

 <400> 21776

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tgcagctgct caagcagcag ggctgcgcgc aggtgaagct gtacgacgcc gacccaccg  180
tgctgcgcgc cctcgcgaac accggcatca aggtgggtggg ggcgctgccc aacgagcagg  240
tcgcggcggc ggcgtgcgc gcgtcctacg cgctgctgtg ggtgcgccgg aacgtggcgg  300
cgtaccaccc ggccacgcag atccagggca tcgccgtggg caacgaggtg ttcgcgtcgg  360
ccaagaacgt gacggcgcag ctggtcccgg ccatggccaa cgtgcacgcc                410
  
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<210> 21777
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-013-Q1-K1-F2

<400> 21777

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gcgcccttga gccatcctcc atgatggcca agtgcgatcc ccgccatggt aagtacatgg 360
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<210> 21778

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-013-Q1-K1-G8

<400> 21778

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acggttggag gagaacaggg ggagaggagc tctgagatgg agacggccgc ctccgacgag 180
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aagttcttca ccacctggta caaagatggc cgggtgggatg ccagacagtt tatagcttct 300
ggaggggatgc catcatccca ctgagctaca gtgacagcac tcgcagtggc tgtggcgata 360
caagaaggct ttcatagtgc aacctttgca actgcactag tctttgcatg cgtgggttatg 420
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<210> 21779

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A1

<400> 21779

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caatcgacat cgacagagta ccagtagtct cataacagag agagagagag agagaaaaaa 180

aaagaaaaga gggcgataac gcaggacaaa gctagaatag cacggcccag ttccagctct 240

tccgtaagct ggttgcttca cttgcagccg tgttggaacc ggcacggatg gttccgtcag 300

aagcaggcgt ccaggaggca gcagcagcag agggcagcca agctgttcaa gcaagaatac 360

agt 363

<210> 21780

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-A6

<400> 21780

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cgtcagtgat agtgggaaag gactaatgtt ctttttacca atatattata acagtgtgtg 180

catataaatc ttctgagctc gcaagctgtg agcctcccag gttaaaagtg tttatatgtt 240

ggcatcattg tttgtttcag atattttatt gcagaacaga aaattgccac ctatcattgc 300

g 301

<210> 21781

<211> 378

<212> DNA

<213> Zea mays

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<400> 21781

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aatccacatc gacagaatac cattagtctc ataacagaaa gagagagaga gagaaaaaaa 180

aagaaaagaa ggctataacg catgacaaag ctagaatagc acggcccagt tccagctctt 240
 ccgtaagctg gttgcttcac ttgcagccgt gttggacccg tcacggatgg ttccgtcaga 300
 agcaggcgtc caggaggcag cagcagcata tggcagccaa gctgttcaag caagaataca 360
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 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-E10
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 aatgtcctgt ccacctagac aatgagtgga atattagtgt tcttgatgat gaagaaactg 240
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<210> 21783
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 <212> DNA
 <213> Zea mays
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tg 422

<210> 21784
<211> 439
<212> DNA
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<223> Clone ID: LIB3062-014-Q1-K1-E8

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<210> 21785
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-F1

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gaacgcaaaa ctgcaactgc ctcaagaaca tcaccaggaa cgtcagccat ctcaacgccg 360
gcaacgccgg cagcatccac ttcaagtgcg gcgtcagcat gcgatacacc atcatcacct 420

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432

<210> 21786

<211> 440

<212> DNA

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<400> 21786

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tacagcacag actgagattg ataacttcat ggttcaacaa cttgatggca ccaaatatga 360
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tcgcaaagct ggggctagca 440

<210> 21787

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-014-Q1-K1-H3

<400> 21787

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gaagctctgg agttgacgga tggtggtctt gactatttgg agaaggggtgt ctccaaggct 240
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<210> 21788
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 21788

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 aagaacaggc tccattaccc agattcctat tctaacaatg cctaacgatg atatcacaca 180
 cccaactcct gaccttactg gatacattac tgaggggacag atatacattg ataggcagct 240
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 gagtgctatt ggtgaggggca tgacacgtcg agaccattcg gatgtatcta atcagctnta 360
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<210> 21789
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-C10

<400> 21789

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<210> 21790
 <211> 162
 <212> DNA
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<223> Clone ID: LIB3062-016-Q1-K1-C9

<400> 21790

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 catgttcatt ccactctccc gttatgtgaa aaataagaca ac 162

<210> 21791
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-E4

<400> 21791

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 cggcgctgga ggacgcctgc cccggcgctg tctctgcgc cgacatcctc gccctcgccg 180
 cagagatctc ggtcgagctg tccggaggac caaagtgggc agtgcttcat gggaggctag 240
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<210> 21792
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-F8

<400> 21792

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 gccagagatg agtccacag gatgctgaac gaggatgagc tacgtgatgc tgtgctgctt 180
 gtttttgcca acaagcaaga tcttcccaat gccatgaatg ctgctgagat tactgacaag 240
 cttggattac actccctgcg ccagcgacac tggatcatcc agagcacttg tgccacaact 300
 ggcgagggtc tgtatgaggg cctggactgg ctggccagca acattgagag caaggcttga 360
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<223> unsure at all n locations
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<400> 21793

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gcctcttaag ttagaattag ctaatatccc gaattacaga aaagcagggtg gttacaccaa 180

cagataatga actgatagtt gttggagatg gtcattcagg taccatatct gttcgtgcag 240

ctggtaacga ccttataaga ccatttgatg ttgctgtag tgtaccact tgagctagac 300

ccttttccat cgtacgcaac anattgatta tatgacatac tgatatttca tgtcagagga 360

tcaatctctt ttagttagga atcgacagat ccaagatgta gaaaactcta cttttt 416

<210> 21794

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-016-Q1-K1-H5

<400> 21794

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ggcgacgccc cgcgggggtt ccgggagaaa ccaggcact ccgagaagcc gaccaagtac 120

gccggcagcc ccaagagcag cgctcctcgc gtgatccacc agcctcgcta ggttcgctgg 180

ccggccccctg atggggactc ggtgactcac atggaaggct gctggctctc tagcagcatc 240

tgctactggc tgcagctgcc gtcggcgctc tgggtctgtct ggtcaagtgc aaataaaaaa 300

acggtaagta ttggactact gtagaaagtt ctttt 335

<210> 21795

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-017-Q1-K1-C11

<400> 21795

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acaacggaac caaaggatcc attgctgcc tgcaaaatac agtaactagc ttttgacaat 120

aatataacca gcatgtatat gcatattaaa aaccacaccc aattggt 167

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 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-017-Q1-K1-E11

<400> 21796

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 gacgatgatg cctcgccgcg cccttctctt cgccgcggtg ctctcgcggt cctccgcgcg 120
 cgcggtctcc gggttccacc tgggagggga cgagagcggt ctctgagagg gtgtgctcgc 180
 cgcgctccgc gagcgagccg aggccgaaga cgccgctcgc ttcgccgtcg ccactacaa 240
 caagaaccaa ggcgccgctt tggagtttac taagggtgctc aaatccaagc gggagtggt 300
 gaccgggacc ctgcatgacc tgatactgga agcagctgat gctggaaaaa agaattgtga 360
 cagagcaaaa gtttgggtga agccgtggga agatttcaag tctgtcngtg agtttcggct 420
 tgttggagac tctg 434

<210> 21797
 <211> 151
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-017-Q1-K1-H11

<400> 21797

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 tagatctgag aagggcactt ctcaaatct acacaccaa aagattttaa caaatcttcc 120
 acggaatggt gagagaacga agaacacaaa a 151

<210> 21798
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-A10

<400> 21798

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 gaaaggtaac ctctacccta gttggccatc tggactactc atttgctacg gcatggcacc 240
 cggatagccg gacctttgcg accgggaacc aggacaaaac ctgccgtatc tgggacaccc 300
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 acagcgt 427

<210> 21799
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-E12
 <400> 21799

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 tagaggaaaa cgcaggtaaa aacgattaca acacgcgcac actccactat tgaaaaacat 120
 aacaataaga aaaaaagag agaaaagaaa ctccctagaa agacgggtac ccaaccatac 180
 catcatatgg cagtatctgg tggatatagcg ctttacagct aggaaaattt ttatctgtaa 240
 tcagatggct cccgtcgggc agcaaagggtg ttgtcgtcga catcgcagca gaggggctct 300
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 ttcacgtggc cct 373

<210> 21800
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G11
 <400> 21800

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agcgccattc cagcaagcgt actcaagtaa tgggcctttc catcaatctg ctgctcctgc 240
 cgtgcctgga gctggtatga agtatccgat gccacaatac aagagcagcc ctctgcttc 300
 gaccctacca caaccatcat cactctctgg ttaccgaagg ttcggaagtg caaataatat 360
 ccctggaaat ttcagcccaa atcagggggc tcccc 396

<210> 21801
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-018-Q1-K1-G2
 <400> 21801

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 attgttgtag acactgcgta aaaaataccc gcaatttgcg cagcagcata ataagtctta 120
 catgcaacag gatgcagaag aatgctggac acagttggtg tatacgcttt ctcaaactct 180
 tacctcagat tcaagtgaat ctgcagctct tccgatgaag caactatttg ggatagatct 240
 cgtgagcagg gtccactgtg cataaagtgg tgaggagagc atggacacag aatcagtata 300
 tcccc 306

<210> 21802
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-019-Q1-K1-A10
 <400> 21802

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 gatcccagtt acaatgaggc accatggcct tctctgactc cagaagcaat agattttgtc 180
 aagcgattgc tgtgcaagga tccgcgtaca aggactactg cagctcatgc tttaaactcat 240
 ccatggatca gaaattatta tgacattaat ctgccgtttg acattcttat attgcgactt 300
 atcaaagctt atattcgata ctcatattta ctgaaagctg ctctgagagc tctgtcaaag 360
 aaccttaacc gtagacgaac tattatacct gaaatcacia gggatctcta ttggaaccaa 420

acatgaatgg atg

433

<210> 21803

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-A12

<400> 21803

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tcattgattg tgtcaccagt ggtgcgcgta gacatccgcg aaaccaggca ggctgctggt 180
tctgcccacg attaatgtac aagtactcaa tcgcatagac ccatggggaga ttactcggag 240
atggagcaca ccatagtaac cagcgtagca acacacgacg actactgagt gtatctctga 300
cgcatgacac actatgcaag ctcatggagt gtatcaacct ccgttttggc ctgcttcctc 360
ctgg 364

<210> 21804

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B12

<400> 21804

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aggggaaggaa agtaactgtg ctagtagtgt acttgcttac ttcaagggtta atatctgcca 180
aaataa 186

<210> 21805

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-B4

<400> 21805

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aaaggggtgtg tcttggattt cattggctat ggtctctcgt gtatcagaaa ggactgcata 120
gaagtctaca tggcaggagt gctggaattt ttgcccgaag caaaagctgt cctctactcc 180
catggactaa tgtatctctg gcaggcagtg ctgggccagc atcaaaaaat ttctttcatt 240
tcgacatttg cccaatagtt gtgttcatgt tcttgtaaaa ccctgttgtg aatgagaagg 300
gacgacattt acctgcttaa tatagtaaaa acatgttcgt cagaaaaaac ca 352

<210> 21806

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 21806

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gcggtctggca gcggcggcga cgacctcgga ggccgccatc acctgcgggc aggtgagctc 120
cgccatcgcg ccctgcctct cctacgcccg cggcacgggg tccggccccct ccgcgtcctg 180
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ctgcaactgc ctcaagaacg ccgccagggg cgtcagcggc ctcaacgccg gcaacgccgt 300
cagcatcccc tccaagtgcg ggcgcagcat cccctacacc atcagcacct ccaccgactg 360
ctccaggggtg aactaaaacc tagaccacgc gcgacgacg ccgcctgac gatcgaccaa 420
ccattccgnc gtcgccgccg gccggatca 449

<210> 21807

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-E7

<400> 21807

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agcaacatag tcggatatgt atgtagctct ctaccactac tgggcatgat acgattcagt 180
 actaagggtgc atattgcaca agcaagatat gaagattcat gtgtcaccaa tatctcaatt 240
 actagggacg tgcattacat ataatcaaga ccagcttgat gctacacgca cgttactcag 300
 atatggatga tgatatgtgt agagaatgaa taggtctgat tctgattgct gtttacaggt 360
 tagaggtgca gtgcatttac aaagagatat aaga 394

<210> 21808

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-019-Q1-K1-H2

<400> 21808

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 gattccatca gttagagagc tattgcagat atttgaaatt gcagctcctg tttttgtgac 180
 aatgacgtcc aagggtggcat tttatgcatt gctcacatat tctgcgactt ctatgggagc 240
 aataacgctt gcagcccatc aggttatgat caatgtctta tgcattgtgta ctgtttgggg 300
 cgaacctctg tctcaaactg cacagtcatt catgcctgag ctggtatatg gtgctaatacg 360
 gaatctgacc aaggcaagga tgctattgaa gtcacttggtg atcattggag cgataactgg 420
 gatgaccttg nnggtagtag ggacacttg 449

<210> 21809

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-B3

<400> 21809

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 cacttcgaac gggacgagaa ggaatcggac gccagatgag actaaccgac ctaggatcca 120
 tcgacgcgtg aagatgtggt cgcccgccga gtgctaccaa tcacgtccac ctataagcac 180
 ggcataatggg aactgtggtt tctataccac cgtgctagtt cagctccaga ttatgcaccc 240

atgatctctc tactcagatt acccctaggt gttcaagaag ctcgagatat ggaggctatt 300
gacacgggtc attattctgg caccattttc catgaaatat ggtatccgcc tgctgatgat 360
agctaggtat ggtgtcatga tggaaaaggg tgcataatgat aagcggactg cagatttctt 420
atggatg 427

<210> 21810
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-020-Q1-K1-E6
<400> 21810

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ggcttattac tatgaactgg accgtcagca tgccggggat cctagcagcg acggtcgagg 180
acacgctgat cgcgtcgggtg ccgggcagct agcttcttgt gtctcccata aaccaaattc 240
ttcgattcac atgtctgctt tgttatcacc catgacgtaa tgaaaacacc acgcaaattg 300
tgtctgggtt gttttccgag ctttctttca ggtatgcggc gattgctgat cagtcaaaac 360
aaaggccttt acagcctgaa ctgaacctgc ccatgctgac acgcacgagg accatgc 417

<210> 21811
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-020-Q1-K1-F2
<400> 21811

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cccacgccac ccgcggttac tacctgggca tgttcctcgg gggcgccctac caggaggccc 180
tcggcgggct gcacaacctc ttccggcgggc cgagcgtggg gcgcgtgtcc cagtgcgacg 240
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gcgcgatgca gcacgagccc gaggtgatgt acgaggtgct gaagcagagg accgacggcg 360
ccacggtcgn cgnccctgcc cgggccttcg gcgcaatgcc gtacctggtg ttcgacccccg 420
aggccgncgt gatgt 435

<210> 21812

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-020-Q1-K1-F8

<400> 21812

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ttgctgggtgc tgggtgtgctt tctggctatg accagctcca gatcctgttc ttcggaaga 180
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tcccggtcct tttcaatcag gatctggtga agcttttgcc tatcatatcg tagaaattaa 300
taattcatgt agagggagga ttcttccaac aatttgcttt ggatggagac ttagatctcc 360
aaacactgcg aactatccta ctaagtgggtg acatcggtac ccaaaaacat ttatgggtcat 420
agagtctgtc ctt 433

<210> 21813

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-021-Q1-K1-G4

<400> 21813

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ggaccagaga aggaggtcag gaaagctgag gccatctttc gaggcogaat gctggagtcc 180
tagagatgtt accctttgcg atacaggttt caactgcttt atattttgaa cgtaaaaagg 240
ggaatatcca aaagggtgat gcgggaccgt ggatcccttg accgtctgtg aatcatgaaa 300
acaaaataaa ggatttcaac ttggcaaaaa aaaaaaana aaaa 344

<210> 21814
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-021-Q1-K1-H12

 <400> 21814

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 cggccgagga ccccataagg agagtcatgt tcttggtctc ctggggtcac acataagaac 300
 acaaaccggc cggtcgagat ctgggcatgc aagctngcat ggnccatgtcc tggtcagtca 360
 gatctgcaac aaccaaactg taaaaagaac t 391

<210> 21815
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-022-Q1-K1-F12

 <400> 21815

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 cgggtgtcggg gggcgcgaa atctccggcg ggcacgtgaa cccggccgtg accttcggcg 360
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<210> 21816
 <211> 320
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-F6

<400> 21816

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atgaagcaga tcgaggagag cctgccggag tggcggagcc agttcctcaa ctacaaggag 180

ctgaagcggc gcgtgaatgc cgtgtcctcc ctcggtcgg cggcagatcc gtcgtcgttc 240

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<210> 21817

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-G12

<400> 21817

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tttcagtccg aggcatcac aagccatgcc agactttgct cgtgtataca acttcctggg 180

aagcatatth gatccagaga caaatgggca tttgcagaag ttgaaggaaa tggatcccat 240

tgatgctgaa acggtactgt tgctgatgaa aaatctgtca atcaacctaa ctagtccaaa 300

ctttgaggag cataggaggt tgctctcttc ggatgcctca agcatggatc aaaagtcggg 360

ctcttccgg gttcatctcc cgttcatgat aacgagcaag tgagagaagc agctggctgg 420

cctgaag 427

<210> 21818

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-H9

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 ttgctgttct gccagagggt ggggcactta atgggcatgc accccgtagg agggggcccta 240
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<210> 21819
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B2

 <400> 21819

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 cactgctggg gtggagccag agaaagcgga tgagttcaaa aagggtgtcg aggggtgcaac 180
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<210> 21820
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-023-Q1-K1-B5

 <400> 21820

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cgcccgccgac gacagcgagg gagcggcgcc tgggtcaaggt gcgggaggag cgcccgccgac 180
gagagtacga ccgggagcac acctaccccg gatggggccaa ggtactggag aacgcctgca 240
gggatgatga agagctccgc gccattcttg gtgatagcat cggcaaccgc gagctcatga 300
agcaacggat ccaggaaagg gtgcgcaaga aaggcagggc ccaattcaat aaatccaaga 360
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<210> 21821

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D1

<400> 21821

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gctgggtgctc gtccgatgtt ggggctctga aagttggggc tgctgggttg gtgggtcggc 120
ggacgacatg aggtcttcgg aggaaacttt gcttggttg taccaggcga gcggcgacga 180
cttttcgatg tcgtctctcc ttcttgaagg cgcggccag aagacctcta gtttgtgtgt 240
tcgtcggcgt tgtggaggct ctttggtcac tccgcttgg 279

<210> 21822

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D2

<400> 21822

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gagtcttttg ctgtgggcac cgagctactt gtgtttggaa tggcacacat tgtcttcaga 120
tacagtatac tgacaaactc ttggacacga ggtgaggtga tgaattctcc tcggtgtcta 180
tttgggtcag caagcgttgg ggagaaggca tatgttgctg gtggcactga ttcttttggc 240
aggattctca gctcagcaga gctgt 265

<210> 21823

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D3

<400> 21823

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gcttgggtctt gacaaggcca ctgggaaacc caagggattt gctctttttg tctacaagac 120

cattgaaagt gccagaagg ctcttgagga gccacataag cattttgagg gagtgatgct 180

gcactgccag aaaggcgatt gatggaccca aacccgacca aataagaagg acctgaaggt 240

tttttcgggc ctgaacctta aattggggcc aagggggttg ctggtattga acttcctatc 300

attcttttgc ccgaacctgt ggtattggcc aacccatggt aacttttgca cctggaatgg 360

cttcattggc tgggtgggatt tctggttgcc caagtgtgga ttctgggttt gggcaag 417

<210> 21824

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D4

<400> 21824

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gtcaggggaac acctatcctt gtacatcatg gtagaaattc caciaattca accagaggcg 120

cactcatgcg cattttcaaa ggatctgctg gttctgcaga agattatggg ttcccaaggg 180

ctatagcatt tgctgctact gcaatccgca tgtcagcagt tgtagctga agacatgtga 240

caaagacata attactggtc gacacgttga tggctcattg aagatgatat ccatacatgg 300

agcgaagaca attgaaactg cttttgagca tattgattca gtga 344

<210> 21825

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D5

<400> 21825

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cactgggtct tgacaaggct actgggaaac ccaagggatt tgctcttttt gtctacaaga 120
ccattgaaag tgccaagaag gctcttgagg agccacataa gcattttgag ggagtgatgc 180
tgcactgcca gaaggcgatt gatggaccaa agccgaacaa attacgagga gctgta 236

<210> 21826

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G11

<400> 21826

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cgacctatag tgtggcccag taatggcgat atggcgacca gctaccaaca tggaactctt 120
cctctccatc aactaccagt tcaagaatgt gggacaagag ctcaccaaga gcagatgagg 180
acctggtggg cctagcaatg gcagcatggc gcggtggcga cgagctgcta tgtgcagctc 240
ttcctctcag taactaccag ttcacgacag tgtggtagga gttcatcaag atcggatagg 300
gatcgcaagt tggacatgtt tttttgtcta tctacatact gtgtttggag atgtagtact 360
ttattctcta caatcggtta accctggtgt cagcgtttcg ag 402

<210> 21827

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-G5

<400> 21827

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gtttcaggcc atgtagcgat attgtttgta gtttgtaccg ggaataacat atttggttga 120
gcttctacgt attgaagaaa caacttatat gtgaaaaaaaa aaaaaaaaaa aaaaaaaaaat 180
aaaaaataaa aaaaaggaat gatcataaaa aatataaaaa 220

<210> 21828

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-A11

<400> 21828

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tggccaccgc cgccgcgtct agcctcctca agtcctcctt cgcggggtcc cggctcccgg 120
ccgccacgcg gaccacaccg gcgtccctcg tgggtggccac cggcccgcgc ggcgcgggcg 180
cgggggcccat ctgcgcgtcc atgtccatgt cctcctccaa cccgccctac gacctgacgt 240
ccttccgggtt cagccccatc aaggagtcca tcgtgtcccg cgagatgacc cgtcgctaca 300
tgacggacat gatcacctac gccgacaccg acgtcgtcac cgtggggcgc ggcttcgcgg 360
ggctgtcctg cgcgta 376

<210> 21829

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-D10

<400> 21829

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ggattcaatg ataagactat gggatctagg acagcagcgt tgtgttcatt cttatgctgt 120
gcatactgat tctgtttggg cacttgcaag cactcctgca tttggtcacg tctacagtgg 180
tggaagagat caatctgtat acctaacaga tttgtccaca agagagagtc ttttactctg 240
cacaaatgaa taccctgttc tacagttgtc tctgcaagat gacacaatat ggggtggcaac 300
aactgattct tctgtttatg gatggccagc tgaagggcgc acaccccaaa aagtcttcga 360
aaagggtgcc tcattcttag ctgggaattt gtcattctca agggcaagag catctttaga 420
aggatcggca cctgtccctg tatacaaaga 450

<210> 21830

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-E2

<400> 21830

taagcacgtc gacttctcag aagactactc acctaagctc aacgccgacg acgcctatgc 60
 cactgcagaa atctttggac ctgacgggaa ttctattggt cctcctatgg gaaatccatg 120
 gatctacatg taccctaaag gcctaaagga tctccttatg atcatgaaga acaaatacgg 180
 aaacccggct atctatat 198

<210> 21831
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-024-Q1-K1-G6
 <400> 21831

cagcgagatt cagagcccga gcccgagccc cagccccaga ccaacgacta gaaaggacaa 60
 tctgcggcgg accggcccga agtcggaggc agggcaaaag gcccgatccc ccctacccgc 120
 cggttgccgc gctcgtgcc a cgggtgcgcta gccccgtcga cgccggcgga cagcgtgcac 180
 tatgggttgc tctnctnctg tgccaactag aaatactgga gggctgaaca c 231

<210> 21832
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-H11
 <400> 21832

ttatttcac ttttatcagg gttttggttc attttcactt gctcttggtc acattcacta 60
 tttaactcac caaaatcagc atcacacaca aatacaagct gactcacaaa tacatacttt 120
 tcaagatcat aagcaaacct actccatata ccgacctcaa ctagatcaac ctgttcatgc 180
 tcatgcaccc aactcacaaa tactatcaca cacaccttta gactctaatt agttgctact 240
 accacattgt tgttgaacat gttaaaagaa aagtctataa tcaatccaa 289

<210> 21833
 <211> 188
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-024-Q1-K1-H6

<400> 21833

tgaccgggaa gccagtacct ggatgggtga atcgactcgc cagattaagt tccttctgga 60
attgggtatt ggctgacagc attcaagggt cagcagtcag atattgtaat gcccttctct 120
gatttttctg atgatggctt ggggtccaat gcctcgatcc ttgaggaag tgatgacgat 180
gatttaga 188

<210> 21834

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-A11

<400> 21834

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tacagagttg agatttgga ttacaatggc gccattgccc tctccaacc ccccttttct 120
ttctcccat aagttgcggt cactgtcctt cttggactct ctggcctttg ttcttgtaaa 180
tgcgaaatga agggatgtga aataagaaca tcttcgtcct gttgttgaca gtatggtaca 240
gcatatttaa tttttgtac ttgaccggcg atgataaatt ggatcgggtgc cagcataaga 300
attatggaaa aaaaaaaaaa aaaagggcgg cc 332

<210> 21835

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D12

<400> 21835

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tggctgctac cttcaggatg actgaaagca gtacttgtaa cgattttgtt tagtaaaatt 120
tgtgagtgtt actgctcaa acaacacctt atgcaaccat atttgaatat ttcacaaata 180
ataaggactt aaaaaaaaaa acctga 206

<210> 21836

<211> 215

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-D5

<400> 21836

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 aggcgcgacg cagtctact cgtgcggtgc ctccagttgg gcagcaccgt tgccacacat 120
 cgccaactaa cgccatcgat caccggggcg cctcccagag tcttgccctg ccatatccga 180
 acctgctcct acagctagcc agcaacacaa acaga 215

<210> 21837
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-025-Q1-K1-E2

<400> 21837

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 gagaacctgg ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc 120
 aacttcgtcc ccggcaagtg agggaggcgc cgccggtgac ctttaggtgt ccggatgcat 180
 gtgagcgcac gctggttttc ggtttgtacc atgatgtaaa ctattgttca atcgacaagg 240
 aataattgtg ttcattgtca ttatttttc 269

<210> 21838
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-026-Q1-K1-B2

<400> 21838

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 cttacagtgc tcaaccatcg caaccttgct agcttggtcg ggttctgcgc gcagggggac 120
 gagaggctgc tgggtctacga gtacatgccg ttcggaagcc tggagagcca tctgtttgac 180
 gtgcctctcg gcaagaaacc actcgactgg aacacgcgcg tgaggatagc cgtgggagtc 240

gcggaagggg tttcctacct gcacaacgta gccgacccgc ctgtgatcta ccgcgacatg 300
aaggccgnca acattctgct gggcgaggac ttcagcccga ggctctccga actccggctc 360
gcgaaggctc ngccggttgg agacaggact cacgtgtncg cgagagtcac gggcacctat 420
ggctact 427

<210> 21839
<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-B7
<400> 21839

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gagaatagta gaaagagttc gaggcggcgg cggtagctcc gcacgtagca ccggcaccca 120
aaacgtgagt ggactgact gcactagtag tactacatac acgtaggccc gggcgccccg 180
gttaaaaaac ggacaagagt acaaccgtca gccgcggcat ccatggacgt tgagcgcgcg 240
cggcgccaccg gctgcatctt ccgcgtagga gttctgtcgt cgtcacgcac gtagccgcgg 300
catccatgct gtgccgtgca ggcgccagcg ccaccgcgtc gcgcgcgccg tgcctaggcg 360
agcaggccga cgaggcccag cgccagcgcg c 391

<210> 21840
<211> 187
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-G11
<400> 21840

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gaggtgattt agaagcgggtg aaatgtgtat gggatgttga gtcgtcaaag aacaccggaa 120
tttaactgtg gtcgtataat attatgtgct acattctatg ctatggcagt tagattttta 180
aaaatat 187

<210> 21841
<211> 449
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-H8

<400> 21841

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cagcagccca aagagccagg gacttccaca ttggctggtt tgttgatcca ttgataaacg 120

gacactatcc acagataatg caagatctcg tgaaggagag gctgcccagg ttcactcctg 180

agcaggctaa actggtgaag ggctcggcag actacatcgg tatcaacgag tacacatcca 240

gctacatgaa ggggcagaag ctgggtccagc tggcgcccag tagctactct gccgattggc 300

aggttcaata tgtttttgca cgcaatggca aaccgattgg accacaggcg aattctaagt 360

ggctctacat cgccccgacg gggatgtacg ggtgcgtgaa ctacctcaag gagaagtatg 420

ggaatccaac gatctacata acggagaac 449

<210> 21842

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B2

<400> 21842

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atcctagttc atctgttggtg tcctagttct atgtgaaacc agagttttgt agcttattcg 120

ctctcaatcg ttccattacc atgtgttatg cacacttctg aatttgatat catccaagtg 180

accttttgaa ctagtttgcg ttctgcactt cattacactt ggacaccgtc agtctttgtg 240

accagtaatt ttgtttgtcg taatggggtg gttttgcaac tcgaccaata aaa 293

<210> 21843

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-B8

<400> 21843

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gagacgtaat aaaaaaggat cgacgcggaa agttccgatt gaaataggat ctaaacaagg 120
ccaagagcac ttgccattcg ttggttatta gaagcatccc aaaagcgtcc gggtcgaaat 180
atggctttca aattaagttc cgaattagta gatgctgcca aaggagtggt gggtgccata 240
cgcaaaaagg aagcgactca tagaatggca gaggcaaata gagctcttgc acattttcgg 300
taatccatga acagaatcta ggtatgtaga cacatggatc catacatctc gatcgaaaaa 360
gaatcaatag aaggagaatc ggacgatatc tttttcgaaa caaataacat gat 413

<210> 21844

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C12

<400> 21844

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ctagtgcgtg gaaccctctg caacaaagcc gcctccacct gaccacctat tgagctcttc 120
cccttcctcg tgggttggtg gagccctcta ccggcgcgca gtacaggggc tgattgggtg 180
atcaaaccg caagatttggt ttttgcgatt tgggagcagg aggcggtggc aatatggaat 240
ataaggcgag atctactgga acttcaggaa cttcgtctaa aagtttccgt gatctgtaca 300
atatgaagta ctcgagctac ttaaacgacg aaccaatgcc ggatgctaca tcggaaaagg 360
agcaggttgt aatactcagg ctatttagtc cct 393

<210> 21845

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C2

<400> 21845

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aagtaccctg acctggagga gacgagcacc gtcgcgcaag ccaacgtcgt cctcggcgtg 180
gcccctgaga agaacgacgc gcccgagttc gtcgaggtcg cgggcgagtt cgaccaggcc 240

gccacggct gcaactgcag cggcaactgc aagtgaacc cctgcaactg gtgatcacat 300
 cgatcgacta ccatggatat gattattatc tatctagctt gtgcgaggcg ttgaacaata 360
 ataagcgagg ccgagctggc tgccatacat aagtattgtg aggtgtgtgt g 411

<210> 21846

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-C9

<400> 21846

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 caaagctaat gccaaagtga gggtagggct atcatcatcc ccaataatgg cttacgtacc 120
 taaataaacg accttgcatt catgcaccaa ctgtgagagt taattgtgca ataattaacg 180
 gccggcatgt ctgtacgact acgcgtcttg gttgcaataa taaacctcta gttttgtacg 240
 tgtaatatta aaccactttc cacgcacctt acacgtaaat tcatgtcaga ctggatttct 300
 cctattactg agtactgcc a 323

<210> 21847

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-027-Q1-K1-G4

<400> 21847

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 aggacaaggg tacacaagct gtacattaca ttacagtcag gagttcttga ccaaacgata 120
 gacgagtaat tttcgacaga tttaaagcac cgtggatccc agaagatact catggctata 180
 tcatgccctc ttgaacataa caactaggat gaccgctatg gccagagcca tgaaggatcc 240
 gccgacagcc atattttgcg taaaaaggcc ctttttaact ggtgaaaggg ccggccc 297

<210> 21848

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-F11

<400> 21848

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atcaatgagc atgtccgtca gtctgttctg gcaagtctgt acaaagctgc aaatgcattt 120
gtgctgccaa cccgtgggtga gggctggggc agaccgggtg ttgaagcaat ggccatggaa 180
ctgcctgtga ttgtgactaa ttggtcaggt ccaacagagt acctgactga ggagaatggg 240
tatccattgg atgtagacag gctgactgag gtgacggaag ggccattcaa gggccaccta 300
tgtgctgagc catcagttgc tcggctgagg gatttaatga gacatgtcgt tgatgataga 360
gatgaggcaa ggaataaggg gaagaaggca agggaggaca tgataaagag gttctc 416

<210> 21849

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-G6

<400> 21849

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tttgaagaag aaaagggggc caagaagggg ggatgatttc acattccttg aagccctagt 120
aaaggcggac ttctggctac tgtttggtgt ttacttttgt ggagttggca caggggtcac 180
tgttctcaat aacctggcgc agattggaat gtctgttggt gctaatagaca caactatttt 240
gttgtgcctc tttggcttct gcaactttgc tggctgtatc cttgggtggat ctgtctctga 300
atatttcgta aggtcaagga tgctccctcg tcctttctgg atgatgtgca cacaataat 360
catgggtgga acgttcctgc tcttcgcgac tggctctcat agcttgattt atgtttcaac 420
tactctcctg gggatatgct 440

<210> 21850

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-028-Q1-K1-H6

<400> 21850

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 gatgacactg atggaagcta tcggctatgt tattccttgg ccaactacac atgtgaagca 120
 agctagaagc tcattcttgta cccgacacga gttggtacct gctgcacgtg gacaaagcta 180
 gatggtaagc ctaacataat tgctacgcgg atcaattaga ttctagtaga cactaacaca 240
 ataacgtgat atttgtatga cattgccact ttgactatgc ttcgtttgtga acacaactgg 300
 cagatactga acatgtatgc tatctagtct gacagcaccg tgaaatt 347

<210> 21851
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C3

<400> 21851
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 taagtcggca ataggaataa aggtcgaaat cttgtttaac ctgccctatt agcaaata 180
 cattccattg tggaccatgg gctgtacaat ggaatgtata tttgctaata gggcaggttt 240
 aacattccat tgtg 254

<210> 21852
 <211> 75
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-C10

<400> 21852
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 ctttccttct tttgg 75

<210> 21853
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-D3

<400> 21853

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gtcgggttcc cttgggccga aggccatcca ttttctacgc gctttgtact ctaggccgtg 120

tgtgtttggt aaatgtacat aacctgtaca tttctacatg ttatgaattg actttcttgc 180

acaataaaat tttgtagaat ggtttaaaca ccaatactga gttctatggc tcatgcttac 240

<210> 21854

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F4

<400> 21854

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ttaataagtg acacgcaatg ctcaagccgc tggaggcaga tttgtatttg catttgtagt 180

gtgtgtgtgt gtctatatat gctacctgtg gtgtatatac cgctgtgct gcaatgttcg 240

gttgagactt tagacaacta tactttatga atgatttaca tggttctgct caattatgtg 300

<210> 21855

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-031-Q1-K1-A9

<400> 21855

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ggcgacgcgg cgcgggggtt ccgggagaaa ccaggcact ccgagaagcc gaccaagtac 120

gccggcagcc ccaagagcag cgctcctcgc gtgatccacc agcctcgcta ggttcgctgg 180

ccggccccctg atggggactc ggtgactcac atggaaggct gctgcctctc tagcagcatc 240

tgctactggc tgcagctgcc gtccggctcg tggctctgtc gtcaaagtcg aagtaaaaaa 300

acgtgagtag ttgtactact gtagaagggt cttttgtata gcatgcacgt aagacatgac 360

caagaaatat aacaagaatg cagctgatag tttact 396

<210> 21856
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-D6

 <400> 21856

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 ttgggtagtg ccgactgcgg acaagcaaac agctattatg caattgcaaa ctgtgtgtaa 120
 gctctgcagt ggtaaatagc atcccacttt gctcgttgta ctgttaagct agcagttgtg 180
 tgctagctag tatatcgggt aagtatgtga agaagctatt gcattggagc ctaccatattg 240
 ttaaacttcg catgaccta tattcacata aaagct 276

<210> 21857
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-031-Q1-K1-G6

 <400> 21857

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 cttgtctata cagcgactat cttgaagctg cagacacgcc tgggtggtac tgcggacctt 120
 acttctacac cacagaagtc ctccgcaagt ttgccaggct acagctcgac tacatccttg 180
 gcaagaaccc attgaagatg agctacgttg tgggtttcgg aaacaagtac ccgaagcgcc 240
 ctcatcacag aggcgcgtcg atacctcaca acggcgctca gtatgggtgc aaaggaggtt 300
 acaagtggag ggacacaaag aaggcaaacc ctaacatcct tgtcggagca atgggtggctg 360
 gccccgacag gcgcgatggc tacaagatg tccgcacgaa ctacaactac acggagccta 420
 ctctcgcagc gaatgctggt ctggttgag cgctgatc 458

<210> 21858
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-032-Q1-K1-C9

<400> 21858

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gatcttactg atctttcggt tcaaatactaa aacgattaaa taaaatgtga tttgcacctt 120

gccatgtact ctaaaaaaaaa aaaaaaaacc aaaaacaaca atacaaatat aatacaaaaa 180

catcaacaac aactacatac cataacaaa 209

<210> 21859

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-032-Q1-K1-G1

<400> 21859

aattcccgtt ctgcgggggt tgaggagtgg tccaaatgga aggagaggcg ttggttacgc 60

tgccgctgct gctgggacga cgcattggca ggggttgatt ggggtggcct tgggtgtaat 120

cacacgggtg cagcacaggt gccctcttgt ccccccccg tccccgtgaa cggacctaaag 180

ttttattgga gcctagcatg aaccgcattg aatcggacca tgcacctgc ctgcattgga 240

ccacggtcgt tgtaaagtag atgcttcacc ggattattat ttttggtgc cattttacaa 300

gta 303

<210> 21860

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-C5

<400> 21860

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gtatcttccc cgagatccca caaggccagg cgagaaagga cttccaagt ctggtgcgcg 120

tcgaggcgcc ggcgcgtcca gaggcgcgca tccccatcga cgtcgtcgcc gtcctcgatg 180

tcagcggcag catgaacgac ccggcggcag cgccgacgga gagaacgaga acgacgtcga 240

ggctggacct gctgaagacg gccgccaagt tcatggtcgc gaaactcgag gacggagacc 300

gcctctccat cgtcgcgttc agcgatcggc cagtcagaga actgagctcc ggcttgcgtg 360

acatgactgc tgacggccgg aggaacgcca ttaggagctt ggaccagctg gagggccgcg 420
gcggcactgc gctcgtgccg gcctt 445

<210> 21861
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F3

<400> 21861

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gatgcagggc aacgcaaact gtgtatagtt cacattttct tcatggaacc aacaacaacg 120
aataaaaagt tcttgctaata atcttgttct agtgggtgtag tgcagaagta gcagcaggca 180
tgattgaagt tccattgtag tactgatggt catcggcact tgatctgtga caagtgcagg 240
cattctttcg tatcttggct gcaaattctt cgttgtccag aatataattt cagatgggta 300
atgccaatc gggccgtggt aaaaagaaaa aacacataca ttctagataa acaaacacga 360
acaatgagca gacacaa 377

<210> 21862
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-F8

<400> 21862

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gaagtgtgca ttgtgtcatc aacaatgatg cctctaaggt gaactctcat ggtccacatc 120
agagttctgg ttccactttg ctatgggaga aaaatgagcc tccagtcaat cctacccgct 180
acaacttgct cgcatTTgca ataactactaa atgagttaac accagagctc gaggtacaca 240
tggaacatac atatatccca taatctgagt tctgttagct cttaacctaa aaggctacga 300
cacatctttt acgctcttgt taaggagaag ctgccaccga cggattcaag gctgagacca 360
gatcaacggc acctggagaa tggggagtac gagaaggcca atgctgaaaa actgcgcctc 420
gagacacagc aacggatggt tgtacacatt ttac 454

<210> 21863
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E7

 <400> 21863

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 ggcgagcgta cctgtttatg ggagattatg ttgaccgtgg ttactactct gtcgaaactg 120
 tcacactttt ggtgtcttta aaagttcgat atcctcagag gatcaccatt ctcagaggaa 180
 accatgaaag ccgacagatt actcaagttt atgggttcta tgacgaatgc ttaaggaagt 240
 atggaaacgc aaatgtctgg aaaacattta cagatctatt tgattacttc cccttgactg 300
 cattggtcga gtcagaaata ttttgtttgc atgggtggatt atcgccatcc attgagaccc 360
 tcgacaacat ccgcaacttc gaccgtgtcc aaaaagttcc tcatgaaggt ccaatgtgtg 420
 atcttctgtg gtctgatcca gatgatcgat gt 452

<210> 21864
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-F5

 <400> 21864

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 cggcgtggaa ccgcactaat aatgtggacc ggaacctctg ttaccgtcgt ttgtgctgtc 120
 gcgtgctagg tttatgctga agtggattcc ttactccgc acaccgaact gtgtctgttg 180
 tacatcacgc cgtgacgccg gtgggtctcgt ctgtctgact tcgttacatg gatcgtctag 240
 tagtaacgga atgcagtacc acgtgaaaaa aaaaatta 278

<210> 21865
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-G6

<400> 21865

ttcaaagcag cgtctgacga tctgatgatg ctgaagaatg caagccttga agagatccag 60

ggaattgagc gggttgaaaga agaaagagac aacatgcttc agcaaaatca gcaaatgcaa 120

cgtgaattgg atgtgcttcg gaggcgcagg agccgcaaag gcgatgcaag tttctccctg 180

acgttcgccg cgtttgctgg gctaataagg tctatgggtg ggctcctgat gaggctcatc 240

ttctcgccg cgccggctga tgcgtagtaa gatgcacgaa aagggttcag ccaacggaag 300

cgttggtgag ttgagaccga cgtgggggaa aaggctcgct cgggggaaga agaagatgaa 360

atttctgctc tagtctccat ttttctttct tttggctgtt gcattctaag tattattata 420

cg 422

<210> 21866

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-C7

<400> 21866

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ggttgaagag aggattgcag ctgcagacag gagaaagatt gagggcaatg catatttcaa 120

agaaaagaag cttgaggagg ccatgcagca atatgaaatg gcgattgcat acatgggaga 180

tgatttcatg tttcaattat ttggaaagta cagagacatg gccttggtg tgaaaaatcc 240

atgccatctc aatatggctg catgcctgat caaactaaag agattcgatg aagctattgc 300

gcagtgtagc attgttttga cagaagatga aagtaatgtc aaagcgctgt tcangcgagg 360

aaaagctaaa tctgaacttg gccagacaga atcagcgagg ggaagatttc ctcaaagcga 420

agaagtactt ccc 433

<210> 21867

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-E7

<400> 21867

gcgccaccaga aggcgctcga gcgcctccag catcaggagc tcgccgctgc cgacaccggg 60
ggcgagtgat ccgcgcgtgt gaggtcctct cgaactctcg gctgcctctg atttggttcc 120
aataagatgg ccacaatgtg cggtcctgaa tgttctggac ttctggtatt gatggaacac 180
gagctgaaca ctatgctgct gggttttctg ttctgacttc aaatttgccc ggtgatgatg 240
gcgaatgtcc tgaatattct gaatattttg aaatgtttga ctgttgatt atcatcttat 300
ccttgcggtg cactaccgca tgagcacaat ttaggattat actttgctat caaaaaaaaa 360
gatgtcaagc agatctgcaa tataatactt tctctacaca tagcctg 407

<210> 21868
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-035-Q1-K1-F1
<400> 21868

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tgggagtgtc aggattcgtc tgtgctcttt tcgccattgg aatcccttat ttatctgccc 120
tcaggatttg gttgggggttc tccacgcttt tcagcctcat gtatattgtg atagcagttg 180
tgctgtcgtc gagagatggg ataaccgcac ctgcaaggga ttacagcatc cccaaatcat 240
cgcagtcaac tcgagtcttc actacgatag gttccatagc agaccttggtg tttgcttaca 300
acaccggcat gctgccagaa attcaggcaa ccatcaggcc tncgtggtg aagaacatgg 360
agaaagctct atgggtccag ttcaccattg gctccttgcc tctctatgct gtagttnttg 420
tgggttactg ggcttatggg tcctcaacat c 451

<210> 21869
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-F5
<400> 21869

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ggtgacctat gatcaattgc taatgctgga ggctaatacta ttttttggcg cctttgccta 120
 ctatgatcgg catagagaca tgcggatgga tattgatgat atgtcctatg aggaattatt 180
 ggccctggac gagagaatag gctctgtgag cacagctctt tcagaggagc agttcacata 240
 atgcctcaca agaagcatat atcgtcaggt cgctctagaa gtgaacacat caaccgttga 300
 tgacatgaaa tgcagcatct gtcaggaaga gtacgcggag ggcgaaacagg cttggaggct 360
 gccatgagag caccggtacc atgtgtgctg cataggccaa tggcttgggc agaagaactg 420
 gtgtacagta tgcaaagcg 439

<210> 21870

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-G5

<400> 21870

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 ttggatgcag aggaaggag ggcagtaaa cattcagcac ccgctatcga cactgatcac 180
 cttgtgcggg agatgatgga caaggtcttg ttgtgcaatg gcgagacatg ttcaaaaggc 240
 gtcaaggaac tccgtgaagc cctgcagcat gacgtggcaa agaattcaca cgggggttcat 300
 ggaaaagggt ccggacatgg caagggccgt ggcaagaaac agccgaagaa ggaggtgggt 360
 gacttgaga ctctcctcgt ccactgtgct cagtctgtgg ccaccgatga tcgacgtgg 420
 gcaactgagc tcctgaagca gatcagacag catgc 455

<210> 21871

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-A1

<400> 21871

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 tccacgtgcc aggattgctt gtccttgggt caagcctcca gtctgacaca gtgtattacc 120

aaccagaggg aatacgagtt agcttgaaac ttttgaagc aagtcctgca gatgctgaaa 180
atcatgtttc aattctgcca gtaaagtatg aagaacctta acatgcgatt cagcacattg 240
aaatttagga aacttgcaact gtaaatgaag tgaactcctt gtcagttata atttttcctt 300
tccaatatat ctctaccctt ttaaagcaca aaaa 334

<210> 21872
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-A12
<400> 21872

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cggctgctat gcctgggcag tgctggtgac ctactccttc gaagcaggca gcttggacca 120
cgagctggac atcacgtgct gcgactgacg gtacaagggtc cttgacaaca gacagctgct 180
gacgctgacg ctagaccgca catacgggtc caggttcctaa tccttgacag agtacctgtt 240
cagcaagatc gacatgcagc tgcagctggt agccgatcaa ctacgacggc accgtcaccg 300
actactacca tgatgtgcaa agccagacgc acgacgagat cgacttcgag ttcatgggca 360
acttgtccgg cgaaccctac acgctgcaca ccaacatatt cacgcgggga catgggcatc 420
atgagcagca gttccgactc 440

<210> 21873
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-036-Q1-K1-E10
<400> 21873

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tggaattctag tttttgccta ccgattggca aagctaagat agaactggg ggtaaagatg 120
ttaccattac tgcattctcc aagatgggtg gctatgctct ccaggctgca gagatactgt 180
ccaaggaagg aatcagtgtc gaggtgatca accttcgac gatcagacca cttgatagag 240
ctgctattaa tgcattctgc aggaaaacca accgattggt gactgttgaa aaagggttcc 300

ttcaccttgg aatggttccc aaaatatcca tgtctgtt 338

<210> 21874
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-036-Q1-K1-G6

<400> 21874

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aaagatggaa atgaagaaaa gggtccgtca ctgcacggag aatagaagag gtttgacctc 180
tatactaggt ggaaatagaa tggaaggaag aggggtggta aacagtaaca ggctactcta 240
cctatacaac cacagagacg tctctctctg atgttgctg agcgcgcggc gccgtctctc 300
aacgaaacta ctgctgccc actgctgccg tcggcattcg tgccgtgccg tccagctcgc 360
gcctatcaca tgactctgca tgagttgggg ttctcgacgt cgaatatgc 409

<210> 21875
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-C8

<400> 21875

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gggtgtggtg gatttcctgc ggccccgaac gatcgatctt ttgcatggca gcagcggcta 120
gctccaaggg gcgggcgac gctgggagct tcgtcagccg cgtcctggcc ggcaaggccg 180
cctccccgag gagggccgtg cagcctcgt cgtacgacaa gaaccggag gagcaggtgc 240
gcccggcgtt cgtgccggac gatgtgatcg gcggcgcggg gagccccgac aagtactgga 300
gccccaccc caagaccggc gtgttcggcc cggcggcggg ggacaccaac cagctgggcg 360
tcgccgtga cgctgccgcc gcgaatgcgg ctgcagcagg aggcacggt 409

<210> 21876
<211> 451
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-D6

<400> 21876

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tccttctagg ctataccgat ccttctaaac cagatcttcc ccggttgcac gaatggcaat 180

tccgatctgg actggatcgc tacatttgga ttgtggggat gatatatgca tattaccatc 240

caactgttga gaagtgggtg gagaagctgg aagaaactga aatgagaacc aaactctata 300

ttaagacctc aatagttaca gtgtcaatga tggctgggta tttgtggtat gaatacattt 360

ataagctgga taagattact tacaacaagt tgcattcata tacatnctgg atccccataa 420

cttgctacat atgcctacgc aacttcactc a 451

<210> 21877

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-E3

<400> 21877

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gtgcgacaaa agttatctat aggagatatg caggactttt tttctctata tgtgtggaca 120

tcaccgacaa cgaattggca tacttggaat gtatccatct gtttgtcgag atattggacc 180

atttcttcag caatgtgtgt gaacttgatt tagtatttaa tttccacaag gtaactttat 240

gcttcactac gctaattctag caatctgcaa taattcaata ctttntatct tttcacatct 300

tgtattttaa ctttaaagag cagtttccaa ctaaattatc tctttatcaa catgttcttt 360

ggtaaccaa tttgcatata ttgagctagt gttagtgggt actgtattct ggctaagact 420

tanaaaagac tgctggcatn gattgtgtta atcatgtact 460

<210> 21878

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-037-Q1-K1-H10

<400> 21878

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ggcagacatt gattctggat atgaggcagc agaaattgca gcttctactc aaacctcttc 120

gggtgtcaca ccatactgtg gttctgctgg aagtgttttt ggcagttcat ggatgctggg 180

taatcatgac caatcagatg gaccatcaac ttctgctggg acatcatcgc agcagaaagt 240

tgtacctcaa agcgagcatc agcggaattt aaaccgcctt ccagatctgc aggaaattcc 300

agagtcaaaa aacctttttg ctgaccttgt tccttctggg gataataagt ccaagaaaac 360

ttcagtagca ttcaaaggac cagatcatag gaacaatgag ttgcaaa 407

<210> 21879

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-037-Q1-K1-H2

<400> 21879

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gggtttatgg tgatccactt gagcatcctc aaaccgaggc ctactggggc aatgttaacc 120

caattggagt caggagttgt tatgatgagg gtaagcgtgt agcagagacg ctgatgttcg 180

actatcacag gcagcatggc attgaaatcc gaattgccag gatattcaac acctatgggc 240

caaggatgaa cattgacgat ggccgtgttg ttagcaactt cattgctcaa gctgtgcgtg 300

gcgaaccctt tactgtccag aaaccaggaa cacagactag gagcttctgc tatgtcgccg 360

atatggttga tgggtcttatt aggctgatga acggaacaa cactggaccg attaacttng 420

gggacccang tgaattcacc atgctgga 448

<210> 21880

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-A1

<400> 21880

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tgagctgtga agcaagtcac caatttataa cgagcgagct agctagcagc actccaccat 120

atgaatgatt aacatcacgc acgcgcatgc atgttgatga gtaataaatc ataagcgcta 180

tttcactagc tagattcact ctcttttctt acgtggatag aaaatctagg aaaaacgaga 240

atagctagcg a 251

<210> 21881

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-C2

<400> 21881

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cgcattgggct gttttctaag ctcgagtga ggctacagaa aggtttgaag cagcctaccc 120

aatgatcaag gagttggctc ttgccggtcc tcttggtcca aaaactgtga aacaagcatc 180

acaacagctt ttacctttgt gtgcaaaagc aatgcaagaa aacaacgcag agctcaccag 240

ggaggctgtt gatgttttca tttgggtgctt aactcaaaat gcagagtcgt acaagcagtg 300

ggaaagaatt tatcttgaaa atattgaaac cagtgttgct gtcctgagca aagttgtgat 360

tga 363

<210> 21882

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-038-Q1-K1-C5

<400> 21882

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ggtcgcgac cattaggtgt tccttctccg ccgtcgccag catcaggggc gccgcttccc 120

ccaggccctc gcgcgtcgcc accctcgcca gcgcctgcgc cggcgcccgc tcccgcgcg 180

tccgtgctgg ccacacggac tcaatccttg aggtgctggc acaggacgat atgctgaacg 240
cataggagct ggtccaatgg gagaatggct tgtcattcaa tgacatagcg ggctaggcag 300
ggngattcgc atccgcagac actgccgccc cactgccctc ttgaaggaga tagaggagga 360
gcctggagcc ccccttacat cctagagang atcatttggg acaaggagat tgaagtagct 420
gag 423

<210> 21883
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-E6

<400> 21883

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cgatgtggga gatgtatcga cagtgagttt gaatttgaag agacattttt tctggggagc 120
atttgccgtg actgtgtcaa gtattcaccc caccacagaa aaatagatgt ttgattctgt 180
tatccattgg atggatacag ttgtaacatt ggattttctgt gattgatgct cccatccatc 240
atacatcttg actgagtatt tctaacaagg aaaaaaaga gagaaaggtc taccagtttg 300
ctatcgggtg aagtgcagca gctgatatat tgtttttgct tgcaagaaaa acgaaaaaaa 360
acagtataac ctaggaaatc agaagatcaa agtatggttt tcctatcatg gtgtcagcag 420
tgaatggatga caactgacaa 440

<210> 21884
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-F8

<400> 21884

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agacaaatga attggagcag ggagaagcat taaggatatct ttatagggtg cttcagaatc 120
atccaaaata tgggtggcctt gtcctccgc agtcaactga ttcaccttat ggtcctgatg 180
ttgttagatt gtttaatgac gctgctcaga tgtcacctga agatgcagat gttcatgtag 240

ttctgggagt cttatacaac ctatcaagag agtatgatca agctataact tcattttaaga 300
cagcagtaca gctcaaacca caagactact cactctggaa caagcttggt gcaacccaag 360
caaacagcat ccagagtgct gatgcaatat tggcgtatca gcaggcacta gacttgaaac 420
ccaactacgt gcgtgcatgg gcgaaca 447

<210> 21885

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-B4

<400> 21885

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tggcattgca gaaacgctag cgccagtgac aaatctttct ttcgttgtga catcagtgtt 120
tttgatgtct ctatgtccga gttcaatacc acagattgct ctatggaatg cttcaaatat 180
tttcatgcaa tgctcttaca acatttatac ataatcttca tgcttggtctt cacatgcgtg 240
tcaatttgca ctttttactc caattatact atcatactta atatcatcaa cacaacttgc 300
tagtcatatg acatttttta accccttcag cacatccatg attgtcttct acttgcatta 360
taaaatatct ttctggacta tgctgggttat ctaaagag 398

<210> 21886

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-C4

<400> 21886

ttctttctaa tctcaaatac actgctagga gtgatgcata ggccaagaat tctgctaattg 60
gatattaatg ctgcacataa tagaccttat gtagctacaa cagatgtcat taactgtctt 120
ttacatagaa tcaaatagta cttggagagc aaaggcgtca acattaagtc gataaatact 180
atagatgtag agcaaggtat tatctgtatg gttaaacaag gccaacacat atgcctgcag 240
gtattattaa gaatactgat catcttgtag gatatcatac tta 283

<210> 21887

<211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-F6

 <400> 21887

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 ccgccgatga gcaagctgga cccggccgtg tacggcccgc cggagtcggc catcacggag 180
 gagcacatca tcgggcagct cgacggcatg tcggtgcagc aggcgctgca ggacgacagg 240
 ctgtacatgc tggactacca cgacatcttc atgccgttcc tggaccggat caacgcgcag 300
 gacggggcgg aaggcctacg gcacgcgcac gctcttc 337

<210> 21888
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-G6

 <400> 21888

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 tgtttctctg aacagcgaga agtctcctca ggctatggtc tccatgcac tcctgccggc 120
 aaatcagggc tatctgatcc tgaactatct aacaagctgc tcattggcta ctacccttat 180
 caaggagggg aacaagaca 199

<210> 21889
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-040-Q1-K1-G7

 <400> 21889

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 aagttttttt gaagaacgag ctgcccttga ggcaaagtac cagaagcttt atgaaccttt 120
 atacacaaag aggtatggaa ttgtaaatgg agaagtggag gtagatgggtg tttgtgatga 180

accggccagt gagaatactg ttgagggaaa agaaccagac gctaaaggag ttccagactt 240
 ttggcttact gccatgaaaa caaacgaggt tttgtctgag gagatacaag agcgcgatga 300
 agccgctttg aaatatctaa aagatatcaa gtggtctaga atcgaggatc ctaagggttt 360
 caagctggat tttttctttg atacaaaccc attcttcaag aattctgtcc tgacaaaaac 420
 gtaccacatg gttgatgaa 439

<210> 21890

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-040-Q1-K1-H7

<400> 21890

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 ctgtgctgaa cagcaggaag acgccgcagg cgggtggtggc cgtgctggtg gcggcggcgc 120
 tgctggcttc gtccgcttcg gcggcgatca cctgcgggca ggtggggtcg tcgctggcgc 180
 cgtgcatccc gtacgcgacg gggagggcca gcgcgctccc cgcgtcgtgc tgcagcggcg 240
 tcaagagcct caacagcgcg gcgcggacca gcgcggaccg ccaggcggcg tgccgctgcc 300
 tcaagagcct cgccaacagc gtcaagagcg tcaacatggg caccgtcgcc accatccccg 360
 gcaagtgcgg cgtctgcgtc ggattcccca tcagcatgtc caccgactgc aacaagatca 420
 gctaagttac gacgaccaag ctaataagcc taccgaacgt acacg 465

<210> 21891

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-A5

<400> 21891

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa 60
 aagaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaccca aaaaaaaaaa aaaaaaaaaa 120
 gggccgcctt ttttaaagat cccaacttta cttccccttc cttccaactt taaacctttt 180
 ctatagtgcc cccaaattca atttaattgc ctttctttta aaaccttcta acctggaaaa 240

cccttggtt acccaactta attcccttg aaaaaattcc ccttttccca agttgcctta 300
 ttacaaaaa gccccaccc aaccgccttt caaaaattt gccaaccta attgccaatt 360
 ggaccccccc ttttaccggc ccttaaacc cgtcggtttt ggggttaccc c 411

<210> 21892
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-041-Q1-K1-B12
 <400> 21892

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 aggtcgctgc caaggactac acggaccctc ccccgggcgc gctgatcgac gcggctgagc 120
 tggggctctg gtcgctgtac cgcgcgtga tcgccgagtt catcgccacg ctgctgttcc 180
 tgtacatcac ggtggccacc gtgatcgggt acaagcacca gacggacgcg tcggcgctcg 240
 gtgccgacgc ggcgtgcggc ggcgtggggg tgctgggcat cgctggggcc ttcggcgcca 300
 tgatcttcgt cctcgtctac tgcaccgccg gcatctcggg gggccacatc aaccccgccg 360
 tcaccttcgg cctcttcctg gcgcgcaagg tctccctggg gcgcgcgctg ctctacatcg 420
 tggcgcagtg cctcggcgcc 440

<210> 21893
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-041-Q1-K1-B5
 <400> 21893

tcacagtttt gaccaatgta ttagtattat ttaccattg tgtattaa tagatcggga 60
 ggatttttgt acatcacagc tgcagtcac ttgtgtccat attattaata tattgctatg 120
 tottagtttg gcaaaaata 139

<210> 21894
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-B8

<400> 21894

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gaacatcctc gcaagtcgcc tttgcatgca acggcctaca aaaccgatcc tcaagaccaa 120
ggccaagga acccaccaca tcgaccgaga cctgaaactg atcaacaaag aactccgac 180
cggcctactc accgtgagcc tgcaccacga agacatgcaa atcctcagag agaacaaggg 240
agtaatgctg tggcaccaag aagcccctac aggacagctg ctgggtctgc ttcgccaatg 300
cagtcaaaca accaatcaaa gccgaatcat agatcgactg cgatgcaggc tccagagaga 360
aggcattctt cagaggggca tagccagcat acacctggaa ggagtaggat gaagcccggg 420
agttatgagc c 431

<210> 21895

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-042-Q1-K1-D1

<400> 21895

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tggtttggtg aagaggaggg ggtaccatct ggacacatca ccttacaggc ctatgctgat 120
catgattgtc ctctgctggt tggctatcct tttcggggca ctgtatacca agtgatgcac 180
ttgtagctgg cttttttccc ctatggagac gagacaaact ctgccaatct gatccttttc 240
gtactctgta gtccccaatg gctgcaggaa gttcgaaatt actggctgta gaagtgtaga 300
tcatacggca gcatgctact gttccatga ctccgttact gctctcgatt cgttttcttca 360
ttatgttttc tcgcgcgttg tatcgtttga agctgtttta agcaacggaa aanaatacca 420
tgtgacacgt gtatcctacg aacatggggt tctgtttagt tagcagtggg c 471

<210> 21896

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-042-Q1-K1-G2

<400> 21896

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agggcgccga cgagaacccc ttctcgaatg gaggcggagg agcgcggtggc ggaggcggtca 120
agccgcagta cgggttccgg ccgacggagc ccgcgggggtt cggcggcggc aggggcgatg 180
cgaccaccga catccctctg gacaccatga acgattcgaa gggcaaggcg aaggagctgt 240
ctcagtggga gtcagatctc aggaggaggg agtcggatat caggaggagg gaggaagctc 300
tcaagagcgc tggggtgccc atggaggaca agaactggcc gncctttcttc ccaatcatcc 360
accatgatat tgccaat 377

<210> 21897

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-C7

<400> 21897

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gcgacacaag acgaaaacag agagccagca aagcaaacc aaggacattg aggtgctgct 120
ctgctagcgt acgtgctaca gcatgtcacg taaggtagac gacgacgacg acgacattga 180
acggaggggac actagacgaa gtgatcacta gtgggtgcat gatctacttc tttattatgt 240
gccagtctga tgcattgacac acacgtagct aggcacatctc tgctacgacg acgactgcat 300
gctgctgatg gccacgtacg ctgccatcca acgagcgagc tacctccact atgggtccat 360
cgatcagttg atcttggtgc agtcgacggg ggggctgatg ggcacgccga cggagacgcc 420
gcacttgccg gggatggt 438

<210> 21898

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-D1

<400> 21898

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aagaggaaga ggaaggcgag aacgatgggc ttgctcctgc tgctcctcgt cgcggcggcg 120
gcgacagctc ctgcggccga cgcgatgggc aaggaggggc actacatggt gtgcaagatc 180
gctgagagct ttctgacgaa agaggcctcg acggcgggtga aggagctgct gccgggggtgg 240
gccggcggcg agctcgcgga gacgtgctct tgggcggaca cgcagagggt ccggtaccgc 300
tggtccagcc cgctgcactt cgccgacacg ccaggggact gcgagttcga ctacgcccgg 360
gactgccaca acacaaaag ggagaagaac atgtg 395

<210> 21899

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-F6

<400> 21899

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cggctcgcac ggcaggtgga tctcagcgct aggcaggtgg aagcgtgggt ccagaacaca 120
catgttcaga taacacacat gttcatgctc atgctgacct cacacagaat gaatacttct 180
tcaggtagag ggatgaccgg aatgcagcag aatTTTTTtag agctaattggt gatataaatg 240
gacttaaata acactgtaat agtcagttaa tatgcatgcc actactttgt taaagcgaag 300
atgcatgcca cttcttctag agcaagtga tgggggtatg agttggatgt tttaggtctc 360
tgtttgatgt gggatggaga ccatcagaag agatttgatc accatcgagg tatggagggg 420
aagcagtagg agttcccggg g 441

<210> 21900

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-G12

<400> 21900

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gtcattcaag gatgcttgat tgcttgacta gctggacact gaagcaaacy tgatgcacca 120

ttgatattaa ctctgtgaaaa ttgagaccg ccactacta ctgcactgga attgactctc 180
ctactcaacg tgactctacc atgaacatgc ttaccactac cttgcattat aactctactg 240
tcataataac tggttccatc 260

<210> 21901
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-044-Q1-K1-A3
<400> 21901

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aaaagctgcc tgagatcagg aagaaactct tcagctacca agtatcctaa tatcttttaa 120
ttttttgcta ttattatatt ctctgatcga ttgctttctg aaataaatcg gaagcgggtc 180
gtcataactt ggaactcggg tgtctctgcc aaaataatgc ttaacaactg gtcgtcgagt 240
gatctgcttg ctctctctct ttttcccttg gaggcatagt aaatctcctt tgtcaagtgt 300
actagcatgt agcacaaaaa tgttctcttg tagacgaatt ttgaagctca tcgaaggctc 360
gcgagcaggc 370

<210> 21902
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-044-Q1-K1-A7
<400> 21902

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ggaaggccgg acatggcaag tcagacttcc tggggaagtc tgacgatatc cctccggcaa 120
agaggctgac gagaaaattg gtcagctaaa caagggtacg tatagtgaat atccgatcat 180
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ctagctcata ctgagcgttg gcctgtcgat ggtcgcgcgg atttgccatc gacacagggt 300
tgctgcatcg agtcatctta ggaatggcta tgcaaactcc tttgtggagt gctagagcct 360
gcttccagcc ttaac 375

<210> 21903
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-044-Q1-K1-B4

 <400> 21903

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 aactggaggg acttctagga gccagttcaa atagaaccag tgccgttggc tctctaaatg 120
 ctgtggtgaa aggaaaacaa cccctgatca gagcatttcc gtttctgagc atcgttgaag 180
 atagttggca ttgggcccc ggaggacctc gaggggctgc agaggttcct ttgcttcaga 240
 gcccctctgt acctattcat caacgtggac cctggaggac cgttactgcc tgctagtagc 300
 agctcgttat tttagactca tcttttgtgc tgctcgtcag ctctgtttca aaccaagcct 360
 actgctcatt tgctttccct gcagcagcag cagcccctac tgttgcacgc aagaaagcaa 420
 tctcattagc gactgcgttg aactgtagt 449

<210> 21904
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-C4

 <400> 21904

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 gtgaagagca acatagaagc tgtttgatg ggacactctc ctcccttgct aaggctcgca 120
 attgtggatt tggcattacc aaaaactcct aatgataact ctctgtcatt gtttgctgat 180
 ccccttggtc cagagagatt ttattgtgcg catgggtggg ggcttgacat ggtcacactg 240
 cacttcctac cattttcata ccctgaaatg tcttcgacac caccctctgt gcatcctgtc 300
 ctactacag ggaacagcga aacaagctca ccttttcttt ctggatttgt taccatagct 360
 gatgcatatg gtcattgaca gttagctggc atcacatgct ngggtgagtg ctttgtgggtg 420
 gagatgaagg ggtggaagga accgcac 447

<210> 21905
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-044-Q1-K1-H6

 <400> 21905

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 ctggatggaa gtatatccat ggtgatgtct tcagggtccc aaagaataag tcgctatttt 120
 ccgctgctct tggcacagga actcaactat ttgctctcac aacctttata ttccttcttg 180
 cacttgctcg agtattctat ccttacaacc gtgggtgcact atttactgca ttggttggtca 240
 tttatgcact cacttcacga attgctggat acattgctac ctctntctat tgtcagttgg 300
 aggggacaaa ctgcgtgagg aacttgctat tgacaggatg cctattctgt ggacttntct 360
 tcttgacatt ttgcttcttg gacaccgttg cta 393

<210> 21906
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-A3

 <400> 21906

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 agtggggagt actaaatggc ctggcgcttg gacgtttcaa ctgttatgta ctacgctttc 120
 tcgtgtctca gatgcttgca ttaaattagt ggcgcttttg catttt 166

<210> 21907
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-045-Q1-K1-A9

 <400> 21907

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 ggccagcatg cagctctaac tcaccccgctg cagcagacgc cgagtcgtgg caggtagcta 120

ggaaggaggg ccggagggaa gggaagggca ggccatggcg ctggaagccg tgggtgttccc 180
gaaggagcac ctagcgggca ctgccaaggc gcgctcggcg tcgtcactgg cctgcgggctt 240
ccgcaccgag gaggtcgagg acaacggcgg tgtgggttctg caaggagagg ccggcgcgggc 300
caccacgtgg gagtactggg acgcggcgct ctgcccgtgc tccactgcac ctgctggtgc 360
cgtggaggag tgctgggacg tg 382

<210> 21908
<211> 86
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-045-Q1-K1-F3
<400> 21908

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aagtcaagtt tccttagcta agccgg 86

<210> 21909
<211> 313
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-B12
<400> 21909

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tcgtgggctg cacaaggttt ggaccatttt gttcagaaat tgcgatttag ggcagccgta 120
ggcagtcac catttgtata ttcttccatt gctgtgataa gatggtaaga atgctcaaaa 180
tttttttttg gttaaatgaa aataagaaaa actcagtttg attcaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaacaaaatt aaaaaaaaaa aaaaaaataa aaagagaaaa tggtaaaaaa 300
aatataagag aaa 313

<210> 21910
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-046-Q1-K1-B3

<400> 21910

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tggacaacgg caacaacaac gacatcgctg cgctggcgcg ggccaactac ccgccctacg 180

gcatcgactt cgcgcggcg cccaccggcc gtttcagcaa tggcctcacc accgtcgacg 240

ctatatctcg gcttctgggc ttcgacgatt acatccccgc gtatgctggc gcgagcggcg 300

atcagctcct caccggcgct aacttcgctt ccgccgcagc cgggatccgt gacgagaccg 360

gacagcaact ggggcaacgg atc 383

<210> 21911

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-B7

<400> 21911

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atgatttttg aactgggggc aggtcagagt ctagagcatg ttcattccac gtatgttggt 120

ttcgtgactt gttttcgggtg atttcagatc tgaatggctg acattttgtc tccatcgata 180

tttaatagta aagcaagggt tgtgacctgg atttattggg tgctgtagac attggaagtg 240

gattttcctc aattggagat attgacaaat tggaaaaaaa tgtgacttga cctgtgctgc 300

aacaacctta aactaagagg ggcttcta tcttcatctc taccaacagg actctactgt 360

tactttttaa accaataact ttttc 385

<210> 21912

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-B8

<400> 21912

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tgattttggt agggaaataga ggggtaagggt aaaacaatga aaaacgtagg agttcggaag 120

tagttcggca aaatgtccac acctatgtaa ttgtattgaa actgactaaa gctagtgcaa 180
ggaactgaca cttagttttg ttttgtgttt 210

<210> 21913
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-C9

<400> 21913

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ggcgtccgag cagggagtcg tgatcgctg ccacagcaag gctgagtttg acgcccacat 120
gaccaaggcc caggaagccg gcaagctggt ggtcattgac ttcactgccg cctgggtgcgg 180
tccatgccgc gccatcgccc cactgttcgt cgaacacgcc aagaagttca ctcaggtcgt 240
gttcctgaag gtggacgtgg acgaagtga ggaagtcacc gcggcctacg aggtcgaggc 300
gatgccgacc ttccacttcg tcaagaacgg caagacggtc gcgaccatcg tgggtgccag 360
gaaggacgag ctcttgcccc agatcgagaa gcatgctgcg cctgcgcctg cgtctgcgctc 420

<210> 21914
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E2

<400> 21914

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cgcacaggca aaagagatgc ttgatcacct ggaaagtgta ctagcaaatg aaccagtctc 120
tgtcaagagt ggccagttca ttgttgaagt caaaccacag ggaataagca agggaatagt 180
tgccgagagg atacttgcat cagtgaagga gagaggaaaag caggctgatt tcttattgtg 240
catcggcgat gataggtctg atgaggacat gtttgaaaat attgctgata tcattgggag 300
gaatttggtt gtcceaagaa cagcactgtt tgcgtgcact gtgggacaaa aaccaag 357

<210> 21915
<211> 440
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-E7

<400> 21915

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cccggttgcc tggggtcgcc gccggctcag gctctgtcga gctcactagc cggggttcaa 120
ggcgccccga agcgactggg cgcacgaag ccgtcgtgga tcgttcgcac tgagtcaaac 180
gtgaggaggg agagagcaaa acgacctgat cctccttgca ccatctgcaa gggcacaggg 240
agaatagact gccgcaactg ctttggccga ggaagaacaa accatgccga tgtggccatg 300
cttccgaacg gcgaatggcc acaatgggtg cgaatttgtg gtggtagtgg actggattac 360
tgcctccggt gccatggaac tggtagtat cgtgaacca tgggctttca cttcactgtc 420
caaagaaaat gaggtgggat 440

<210> 21916

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-046-Q1-K1-F5

<400> 21916

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tgtacgtgtg gcacttctgc acggtgaagc ggtacgagtt cgagatgcac agcaagggtg 120
ccatggcgtg gatcctgggg ctgggctcga gcctgggcct ggtgagggtc ccagggatcg 180
gcttcgtgta cacggagctg gcgagcggcg tgccgcacat cttctccac ttcacacca 240
acctccccgc gatccactcg gtggtggtgt tcgtctgcgt caagtacctc cccgtgtaca 300
ccgtgccgac ggaggagcgg ttcctggtgc ggaagatcgg gccaggagc ttncacatgt 360
tccggtgcgt ggcgaggtac gggta 385

<210> 21917

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-G6

<400> 21917

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ttacagacct ttggtgcagt atcatctcat atttcgagtt gaaatggtaa tcaactgaatg 120
ctcttcgcag ggcatttcca gcttgtatct tctccatgag atcgcatcta tactcggact 180
cgtggacgat gacat 195

<210> 21918

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-046-Q1-K1-H4

<400> 21918

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cttgaagcat cgacaagttg ctagtcattg cttacgtata taagaacata agtagtattt 120
gctattgtca agtgtgcctt gcttgatgca agttgtgttt tcgtatcatt attattatgc 180
acggccatcg tacgtgtatg gcttgtatgg gttattgcc aacttaataaa agcacactct 240
gtttgcctaa aaaaaaaaaaag aaagaaaaat aagtacataa a 281

<210> 21919

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-047-Q1-K1-B2

<400> 21919

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ccgtgatgat ggccctcgtcg gccaccgccg tcgctccggt ccaggggctc aagtcaccg 120
ccagcctccc cgtcgcccg cgtcctcca gaagcctcgg caacgtcagc aacggcgga 180
ggatccggtg catgcaggtg tggccggcct acggcaacaa gaagtccgag acgctgtcgt 240
acctgccgcc gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ctgcgcaacg 300
gctggatacc ctgcctcgag ttcagcaagg tcggcttcgt gtaccgca 349

<210> 21920
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-047-Q1-K1-D10

 <400> 21920

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 gtgacgggga agagtgaagc tagtgggccg ccgccgtgcc gtagcaaaac tcgttcggga 120
 gggcagaact accgccgcgc acgacgaagt gggctagcga ccgcgtgctg gtctcgacta 180
 cacggttctc cttgcacagg aactccctgg agcacgccc 219

<210> 21921
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-047-Q1-K1-G1

 <400> 21921

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 ctcatgtgtt aaaaaatgta ccacctcctc ttctgtggat tgtggcgga tggccatata 120
 agtcccgtga agcagcggag atcctgaggt cttctggggt tatgtacaga catcttatct 180
 gcaatcgga cagtacaaat ataaggaaga ttattgtctg ccaaagaac aatgcaattt 240
 ttcatatcaa gaagcaccgt ttagatggta tagtacattt tgctgatgag gagcgagtgt 300
 actcagttga tttatttgaa gacatgcgna aaatcaggcg cttttgtacg tggccagtag 360
 cgacacatgt ttggacccgg taccaagggg gttttg 396

<210> 21922
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-048-Q1-K1-E6

 <400> 21922

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agagctacct tgctctgatg actgtcattt tcttctgggc tatgcacaag accgatttct 120
tctcggacaa attcgggtgtg aggtcgatca gggacagcga gcatgagatg atgtccgccc 180
tgtaccttca agtgagtatc gtgagccagg ctctgatctt cggcaccctt tcccgtatct 240
gggccttctt ggagcgcc 258

<210> 21923
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G6

<400> 21923

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gtgtttctgg tttccctaca ttgaagttct tccctaaggg aaacaaagcc ggtgaagatt 120
atgatgggtg cccgggacttg gatgactttg tcaagttcat taatgagaag tgtggcacca 180
gccgggatcc aaagggccac ctgacttcag aggctaggct tgtgccaaagc ttgaatcctc 240
ttgtgaagga gtttctcaat gctgttgatt acatgcggaa ggaaatcctc tctaaaatag 300
aagaggatg 309

<210> 21924
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-B3

<400> 21924

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gtcgttgat tatgtgtacc attagcatcc attttgttg tttctagaag ttggtaatga 120
ccgtcggaga agagcctgta attgttcgat catgtattgc ttacaatttt tttttaaac 180
gatgaaataa aacaatcagg cttaacatct cataaaaaaa aaaaaaagag ataaaaaaa 240
acaaagaata atacaataaa tagatcat 268

<210> 21925
<211> 388
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-E11

<400> 21925

tccgcaccca acccccgtcg gagagagaga tggcatcggg ggcggagatg cagccccctcg 60

cgccggcgga gtaccgccgc ggcgccgaga tgaaggagaa ggtggaggcg tcggtagtgg 120

acctggaagc cgtcaccggg gagacgctgt acccgggtgat ctgcgcggg gagagcgccc 180

tacgatgggg cttecgaccgc aaggtctact gcatectcgc tgcgcagctg ctctgacca 240

ccgacgtctc cgccctcacc gttctccatg ctacccttaa cgccacgctc tgcgacttcg 300

tggacctcgc gctcgagctc gacgtccttg ccttcattct gatgatccca ttgtatcatt 360

atcagcacat gcacccacac aatttcgt 388

<210> 21926

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-049-Q1-K1-E12

<400> 21926

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gggtngcttc acagggggct ttagtctaata caacctctc actctgtctg tgtctattgt 120

atataccact tgtcgtggat gtatgcctgt acattgttgg caaggatcaa tatgatctgc 180

ttgctatctc ttaagtgatc ttagcaatta cttcatctgt caatgatgat ttgtcgaaac 240

cttctacctt gcgcctatctt cttgacaaat a 271

<210> 21927

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-049-Q1-K1-H11

<400> 21927

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tgaagttgca caggagttgg ttgaaaagat tgggaaggtg tttgagacca tactggaaga 120

gactggcaaa ttgaggaag gaaccaatga agatatgtct atcgcaaagg ccattgcaat 180
 tgttatggat agaaatccac agttgaagca agaacggatt gtcctgaag ttcttcagtg 240
 gtatttgtgc cgtatggagg gttggtttgc cactgacgca aattcaattt cactacaggg 300
 ctgggatcat gaggtgctgc ttccaggtgg ccatggcctc atggttcgtg gatatcgtcc 360
 agttataaat actct 375

<210> 21928

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-A12

<400> 21928

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 tgctcctggc ggcgtcaccg ctgcttggcg cgacgcagaa ggccgcgcca gggccggcgt 120
 cgtcgtcggg ctcgggcgcg ggcgcggcgg acgcggcgcc gccgacggac gtgaacaagg 180
 cgctgaagga cgagcagttc agcgagttcc ggcagctgct gcacgacacg cgcgtggaca 240
 cgcagatcaa cgcgagctg acggacagct acaacgggct gaccatcatg gcgcccacca 300
 acgccgnctt cgacaagatg aaggcgggcg tgctgaacgg gctgtcgccg caggagcaga 360
 tccagatggt gctctactgc gtgctgcccc ggttctacag cctgtccatg ctcggcaccc 420
 tcagcggcaa ggtcaacacg ca 442

<210> 21929

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-050-Q1-K1-A9

<400> 21929

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 tcgctcctcc tctcctcagc cgcagctggt cgcgggcgcg gcggtcctgg cagcgggcgt 120
 gctgctgctg gcggcggggg ccgggacggc gtcggcgggc gtgagctgcg gcgaggtgac 180

gtcgtcgggtg ggcgcgtgcc tcgggtacgc gatgggcagc gcggcgtcgc cctccgcggc 240
 gtgctgcagc ggggtgctct cgctcaacag ccgcgcgtcg tcggcggcgg accggcaggc 300
 cacttgcaac tgctcaaga gcatgacggg ccggctcggc ggccggcgtca gcatggccaa 360
 cgccgncaac atccccggca agtgcggcgt ctccgtcggc gtgcccata gcccaccgt 420
 cgactgcacc aagatcaact gatcgatgga acc 453

<210> 21930

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B7

<400> 21930

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 gccacttgct atgtcaaggt ggccctgcac gcggctctat tgcgatacac cgtatcatcc 120
 gcgccaata agtgcagtct tgccctcgca gagaagaca ctggattcct taccgtattc 180
 caaaagaatg tgcttgccgg accactgtca ctaagaacgc gggtagcgac gaccgcacct 240
 gttgccacgc caatttccaa tacggccgcc accgatggga agaagaccgt gcgacagggc 300
 ttggtggata tcacgggctc atact 325

<210> 21931

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-B8

<400> 21931

tgagatcgag tatcttccga catctcatcc ctgatgaaag tgccgctagt gaggtccctg 60
 ggagttgtca tgaaag 76

<210> 21932

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-D5

<400> 21932

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gagtgggaga cccgcgagag gctgccgtgt agggaccgta gactcagcga ctgcgaagga 120

gggataaggg gatggccggg atcggaccga tcaggcagga ctgggagccg gtcgttgtgc 180

ggaagaaggg acccaccgac gccgccaaga aggatgagaa ggccgtcaac gccgcgcgcc 240

gcgccggtgc ggagatcgat accatgaaga agtacaacgc tggtagaac aaggcggcat 300

ccagcggtag atccctcaac accaagcgcc tcgacgacga caccgaaaac ctgccccatg 360

agcgagtcc aagtgatctg aagaagattc tcatgcaagc aaggctcgat aagaagctga 420

cacaggcaca acttgctcag atgataaatg agaagccaca ggtgattc 468

<210> 21933

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E10

<400> 21933

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cgcgacgact gacacctgcc acccgacaac gccgcacgca tacaagccta acttcagaac 120

tacttcgaca gcgtcccaca gagacgcca tgcattgcaa cacgcagcga cccctatcaa 180

gacaccttcc cgcaaccatc agtctacaa gacgaagacc actacttgcc tgaactacac 240

aagcttctct aactatagac taagcccaaa aatctgagcg ctacaacgag agcgagaca 300

cctact 306

<210> 21934

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E5

<400> 21934

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tgggaccatt gtctggaccg tcgtgagtgg aatctatcca gtaggctttt atgcacgaac 120

tagtctaagg cgaaagacct agacgcattg tgctattatc gaatgttgag ctgtcaatac 180
ctttggcgct tatgacgaga aataatatct gac 213

<210> 21935
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-050-Q1-K1-E8

<400> 21935

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gccgtcgatg attggtatgg aggctgctgg aatccatgag acaacatata attcaatcat 120
gaagtgtgac gtggatatca ggaaggacct ctatggtaac attgtgctca gtggtgggttc 180
gactatgttc ccgggtatcg ctgatcgat gagcaaggag atcacttccc ttgcaccaag 240
cagcatgaag atcaaggctg ttgcaccgcc tgagaggaag tacagtgtct ggataggagg 300
gtcgatccta gcctcgctca gcactttcca acagatgtgg atatcgaagg aggagtacga 360
cgagtctggc ccggcaattg ttcaccgga gtgcttctag ggtttcacaa gttcctcgtc 420
gttacctagt ctcaaattat gtcccctcca tttctcgaga tat 463

<210> 21936
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-B11

<400> 21936

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ccttttcatt tccttcgata tgaataagat gatggcgatc tgagtgggtgg tcttagttga 180
gtcttcaagt cgtttgtgtc tgtgtccctc gcggttttaa tttagcgggt taggtgtgga 240
tctgtgaatc ccgtggcgcc tctgtttaat ccttgtttca gctgttatgt tatgggatcc 300
atgataatgc tataaaactg aaattccggt tcgggcttc 339

<210> 21937
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C5

<400> 21937

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gagctttccc agtggacaca cttcatgggc ttttgctggt ctaggcttcc ttgcatggta 120
cttagctggg aaactcacgg cttttgatcg caaaggacat attgcgaagc tatgcattgt 180
gtttctgcct cttcttactg ctgcgcttgt ggctgtttct cgagtggatg actactggca 240
tcattggcaa gatgtatttg cagggggtct tataggctct acagttgctt cattttgcta 300
tctacagttt tttccatata cttttgatgg cgatgcgttg tggcctcacg catacactgt 360
ccagttagcc gaagaaggga acagcagaaa tacaaacttc tacagcgtga gaccaagcca 420
gatcgaaaca gtc 433

<210> 21938
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-C9

<400> 21938

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tcataatatt gctcttcttc atttaataaa ttgttggttct attctatttt ataagtcttc 120
attatatatt cttttt 136

<210> 21939
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-051-Q1-K1-D12

<400> 21939

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taagggccca aaacttcaaa agcttttcat gattcatttt tggacaaggg gatatgggtt 120

ttaaaaactt cgcttttccc tttttttcctt ggaaaaggcc 160

<210> 21940

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-A8

<400> 21940

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ctcgtttaag aatctgtcaa gtgggtcaaaa tgctttcaca ggtctgaccg gaactggatt 120

ttcaagcaca tcattctcgt ttgggtcagc ctctaaagat ggctcaagtg ctgggtcccct 180

atttgggctg aaagctgatg gttcttcggt cccttctttt aatcttgggtg ctgccaccaa 240

tgggggttct gccacagctc ttgctacttc agcagaggca cccaagatgt ttgctatgac 300

agagggccct gtcgaaaccg gtgaagaaaa tgagaaagct gtattcagcg ctgattctgc 360

tttgtacg 368

<210> 21941

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-052-Q1-K1-F1

<400> 21941

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cgaagagatt ttggcaactg caaagcaaac tgagagtgcc cagaatgttg caggtctatc 120

accgccaagc tattcagctg gagtgcagtc tgaggggactg gatgaccttt cacattccca 180

taagtttgcc gttggtacta gaggttcaagc tgtgtggagt gaagatggag aatggtataa 240

tgcaaccgtt gaagctttga caccaaattg atactatgta gcctacgatg gctggggaaa 300

cagtgaagag gtggaccagc ataatgtgag gctgcttgag gaagaagcag ctgatgcctt 360

gggacaagct gaaaaggga gctgaagcta caaaaatggc aataaaggag aaaattgaa 419

<210> 21942

<211> 356

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-052-Q1-K1-G11

 <400> 21942

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 tagaacctag catttggttt gattccgccg cttgggtccg ccccgaggag gaggcaaggg 180
 agggagcggg ggccgcgcgg ccatggcggg ctctgtctacg gcggcgatgg acgcagccgc 240
 ggcttggtgg gacgacgtga acaactccac gctgtggcag gaccgcacct tccacgcct 300
 cgccgcgctc tacggcatcn gtgcagtcgt agccctagtc caacttgata gaatcg 356

<210> 21943
 <211> 67
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-052-Q1-K1-H5

 <400> 21943

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 aaggga 67

<210> 21944
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-A12

 <400> 21944

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 tatagcatag gtctagacac catacacaca ggccacaaca acaatgacgc taataccacc 120
 agcggtatatt atgttacatg caccactgat ggtccgtacc cggtagcgtg atcttcaccg 180
 acaacccac ccgaaaaaaaa aaacaacgac cacaatagga taacgaagaa ccaagat 237

<210> 21945

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-B2

 <400> 21945

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 actctccggt tggagttagg agcatcgtga cctccttggg ggctttcttc atcctagcca 120
 gctccatcgt gttcctctc gacagaggcc aggaagagca agtgcaagtg gcagtcgagc 180
 atggacgcca agaagtgcag gtgaagctgg aatccgggct gcaagaaccg gcgataagag 240
 ggacaaccca agaggggggac gccagcaacg aggagtgcaa ctgggtcccag ggaaggtggg 300
 tctacgacaa cgtgtcccg ccatgtgaca ggcgggctca agtgctcctt catctttccc 360
 cgaggtggcc tgtgacaagg attggcagga aggatgccat g 401

<210> 21946
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-B3

 <400> 21946

 tgaaaacaca gaccacacac aattcgattg cagcatgcaa cgtcatgatg acggggcgggc 60
 actctactat tggagctagc aacataactca 90

<210> 21947
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-F11

 <400> 21947

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 gatagaaccc ccaagcaaac caaatacag gcatgactac tacaacagtg ccacagaagt 120
 ggtactgaca atatttgcta aggggtgtcc tgctgatagt gtagtcattg attttgggtga 180
 acagatgttg agtgtatcca ttgaagttcc tgggtgaagaa ccataccatt ttcagccccg 240

tctgttttct aagattatcc ctgagaaatg caaatatcaa gtcttatcca ccaaggttga 300
aatacgcctt gcaaaagctg agcaggtgac atggacaacc ctggattata gtggaagacc 360
aaagactggt ccccagaaga taagcacgcc agctgaaaca gcccgaag 408

<210> 21948
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-F8

<400> 21948

acgcgtccga agctccgcag gccactctgc gcgagttgct tggcctgctt attggccctg 60
gagagggtcg tgggtcttgc agccatcggc gcctattcga agaaaactta ctggcgaagg 120
gcctaaggcc tgttaggatg ccctgtcaac gacatcccaa tctatctgcc tccggcctaa 180
atgtactctc ctaacattcc cgacaccaca cagatatact cggaggcccc catcttatta 240
tgacctgcca aacactacca tgccatgcta gatattcaac actcacctat tgagctggct 300
gtgcacgact cttgccagcc ctgatgactc tcatatctct cttgaa 346

<210> 21949
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-053-Q1-K1-G12

<400> 21949

tgaagattct gtgagcttca tggcacatgg ggggtggtggg gatacttatg cagcagtga 60
gaagtacctt ggccgtatcc tttctgaggt ggtggatgct tccattcaaa aacttggtga 120
ttcaggcagt ggtctaagtg tgtcccaggc aatgcaagtc gctgctaaca tgtctgtgat 180
ggagcgggca tgtgagttct tcacacgcca tgctgcacaa ctgtgtggtg tgccactgcg 240
tgctgtggac cgtggtcggc gggacttccc acttcgcagg tcacgtgatg ctgctgatgc 300
gctcctgctg cggctcctat gtgctaaggt tgatgagttc atgcggcaat ctgatggtgt 360
taactggatg 370

<210> 21950

<211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H11

 <400> 21950

 gccaaagcgcg cggttcgtgca ctggtacgtc ggctagggct tggaggaggg ggagttctcc 60
 gaggcacgcg aggacctggc cgtcctggag aaggactacg aggaggtcgc cgcagagggc 120
 ggacgtgatg actgcgacga ggaggaggaa tactgatctg cttgcatgaa tctgtttggc 180
 tgtcgagcca ggttgtggtg ttgaaaaacc tttgtttgtg tcttgggtaa tgtttgggtg 240
 tttccttcca tcatcacttg ctgaactgct ctagtatttg catttgtaat tgaagtctgt 300
 cgctttaaaa aaaaaaaaaa aaaaaaacat aaaaa 335

<210> 21951
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H4

 <400> 21951

 tgaaacacac caagggccag ctgtccttgg aattgctctt attgctatgg ctgaagaatt 60
 aggagctgaa atggctgtac gttcacttga gcgctctctg cagtatggcg agcagaatat 120
 aagacgagca gttcctcttg ctcttgggtat actctgcata tctaattcca aggtgaatgt 180
 tatggacaca ctgagtagat tgagtcatga tgccgatgcc gatgtgtcaa tggctgcaat 240
 tatctcattg gggttgattg gtgctggcac aaacaatgcc agaatactg ccatgcttcg 300
 caatctttca agttattact acaaagaagc ggctcatctg ttttgtgtta gaattgctca 360
 gggccttggt cacctcggaa agggcttggt gaccctttct ccgtaccatt ctgatagatt 420
 tcttctttcc ccgatggcac tt 442

<210> 21952
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-053-Q1-K1-H6

<400> 21952

tgataacaca gcgccatgcy atgtatcttg tgacttggtg aattagtgat gcaggatgcc 60

tttgtaaca aagctaacgc ttcaacttcg acttgagcat tactttgatt ttttgttgaa 120

tcgtgcatat ctgtatcaat ttatttattt tgggtttatg gtattgtggt tcgatcaaatt 180

tataaacaca ctaaaaaaaaa agag 204

<210> 21953

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-B11

<400> 21953

cgtctgtgca ggccctgtag tccgccacag ggctctgagc tgcactggcc ccggtgctgg 60

catctggtgg agcggaccca ctcccctcac attccacagg cccatggact cacttttgta 120

acaaactcct accaactctg accaataaaa aaaaatgtgg gttttttttt tttttaataa 180

aaaaacaaaa aaaaaaaaaa ataaaaaaca caaaaaaaaa ataaaaaaac aaaat 235

<210> 21954

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-H11

<400> 21954

tgctctgctg tggagacaga gcagtgaccc caaggagctc acggtccctg aaggagggtgc 60

tagagaagag acttagcttc tgatactgcc aatttaattg gagaacatgg ggtatactgc 120

atcattttcca ttttcatcaa taacatatgt tttatgcacc ttctttacct gaaacttact 180

aagaatctac cagtaaaca acatcctgtc tttttgcaag tatgaatcac ttaacctgct 240

gatagttgaa gaacacttta ggagttttgt attcttgtat atagttttatt ttttccatgt 300

gctagccagg taaagattac acagttcttc tggactgtta aattgtgcat ggttttggac 360

cccttctgct ctactacaga gagtgaagaa gaaagtatta aagctcactt tacca 415

<210> 21955

<211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-057-Q1-K1-C12

 <400> 21955

 tccaaaatca tgattacagg gaagtggaac aagtccctga gttgccaacc atgtgaccaa 60
 gaaggcgatc ctttttcagg cacggagctg aaagagatct ggagaggtgc ttctggccca 120
 caaggcgaca agtatcagta cacacacttt ggacacaaaa ttaacagctt tgacacggga 180
 cct 183

<210> 21956
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-058-Q1-K1-A1

 <400> 21956

 gacgcgctgc ggcggctcgt ggagcggcac ggcgcgcgca actggacggc gatcggggcg 60
 gagatcccgg ggcggtcggg caagtcgtgc cgcctgcggt ggtgcaacca gctgtcgccg 120
 caggtggagc gccggccctt cacggcggag gaggacgcgg ccacgtccg cgccacgcg 180
 cgcctcggca accgctgggc cgtcatcgcg cgcctnnctc ccggccgcac cgacaacgcc 240
 gtcaagaacc actggaactg gtcctcaag cgcaagctcg ccgtcgcgtc cgtcccggcg 300
 ggttcctccg acgtcgacgc gcgcccgacc aagcgcgtca ggctcttcgc cgacagcccc 360
 tcggggtcgg gg 372

<210> 21957
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-058-Q1-K1-A4

 <400> 21957

 tgctcgagac gagagccagc tctcccatca cacgagcaca tggcggtcac caccctggga 60
 gctgtcttcc tggtcgtggc tgcgtccgga acgcccgtc cggtctggtt aacctgggaa 120

ccggaaggcc cttttaacct tgaaccaggc cctggggaac ccggaaccgc tgccaacttt 180
ggaccaagc gttgcccagc tgctgttcgt gggaccacct ccggtgtaac gaccccggac 240
ccgtgaccaa cgggttcattg gacgggtgcgg acaacttgcg c 281

<210> 21958
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B10

<400> 21958

tcggatcatg tgatttaaca tgaccacttg tcatatttgg tccctgtatg agatgtgtaa 60
tgtgtgggga tattttctct ctttaataca aagaagggca gctaattctg tgtttttgaa 120
aaaaaaaaa aaaattgaga aataaaaata agtatacaaa atctaaataa aaataaatat 180
ta 182

<210> 21959
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-B12

<400> 21959

tttgtgactg acagtgaaaa aatgacagtc gagtatgaga actgcaagct tctccttgtg 60
gacaagaaaa ttaacaatgc cagagatctt atcactatcc tggaggatgc tattagaagt 120
ggatatccaa ttctaatagt ggcagaggac attgagcagg aagctcttgc aacccttgtg 180
gttaataggc ttagagggtgc attgaagatt gctgctatta aggcccttgg ttttggagag 240
cgcaaaagtc aatatcttga tgacattgct actctcactg gaggcactgt catcagagaa 300
gaagttggat tatccttaga caaggcagac aatgcgggtcc taggaactgc tgctaagggt 360
gtagttacca aggattcaac aacaatagtg ggagatggca ctacac 406

<210> 21960
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-058-Q1-K1-H5

<400> 21960

tatcacagca gaagtgtctca atttttgctg cggagccac aagtatgggc accacaatga 60
ggacttcata gccatctact ttgcttcttg catggaattt atttgggtgt cattgctgca 120
tatggttgcc gtagacatcc taatgc 146

<210> 21961

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-D3

<400> 21961

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ttctagacac agtacatgca accagtgacc ttcaagcatg ccatctagct taatatcgga 120
aagccacaag gtgcaaagta tggggcagtt tgtgaacggc aagaccaact gggcttaaca 180
agacaatcaa caaatgtcaa atccagatca gccaaactga gtgttccaat tctcaggcaa 240
aggaacaggg tgtcagtgcc ttctctctc atcaaagtgt cacatgaaca tctagctgaa 300
aaggaactga tagtcactta aagttcccca agatagatct gcttgctcgt gccgcaagat 360
ccaatgatcg gctctgtggg atggaaagca gtctcattga cagaaccatt gt 412

<210> 21962

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-E1

<400> 21962

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gcatctcctg ctgctgtggc tggctctgat cactcctatc ttgcacgact gctacaacta 120
cgacacggat aaggcagaat tcgcgcggct gtctgcgaag ttcacccatg acgtgacgct 180
ggttgagct ctctcgtct tacggggcat gaagacctcc attccgaatc gacagggcat 240
gaagatggct cacaaggcga agactaacta ctaagaggtt gctcgtcgtg cctcaggcgg 300

gtgtcaggag actaatagcg gccagtgcg aagcagtcga tgcgcacga gctgtcggct 360
gcgcttttac atgtatcgca tattcagatt ccactctgcg gggcg 405

<210> 21963
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-F12

<400> 21963

aagcaagcag cagcagccgg ctccgcctcc cgcagcagcc acaccccgtc cgtcaccaga 60
ggaagaggaa gaggaggatg tcggggtcga aggtgtacac ccttgatgag gtggccaagc 120
acaacaccaa ggatgactgc tggctcgtca tcggcgga ggtgtacaat gtgaccaagt 180
ttctggagga ccacctgga ggtgatgatg tctgtctgtc ttccactgcc aaggatgcta 240
ccgatgattt cgaagatgtg gggcacagca ccacgtccg tgcaatgatg gacgagtacc 300
tcgtcggatg gattgatgcg gccacgatac ccagtaaggt gaagtacacg cccccaagc 360
agccgcacta caaccaggat aagaccccg agttcgtcat c 401

<210> 21964
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H10

<400> 21964

ccgcttacga gcgcacccct tctccctcgg agcggatcac tactggctcg tatctcccat 60
ta 62

<210> 21965
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-059-Q1-K1-H3

<400> 21965

ttctgcacta ttgccactgt tgcaaatgg ggtcgatcag cttacatcaa cattcaggga 60

ggggtgcagc ttcagctcac tgtcaatgtg gttgctctag tggcaaactt ctactcagct 120
 tgcctgacag ggagtgtctc tatcactgct gtgcaattgc tctgggtcaa catgatcatg 180
 gatacactgg gtgcgctggc attggcgaca gaacccccaa acaatgaact gatgaagaga 240
 acacctgttg gaaggaaagg aaacttcac agtaacatta tgtggagaaa catcctgtga 300
 caggccttgt accagtccct tgtaattagg tacctacaga cagagggaaa gtggctgctt 360
 ggaatcaagg gcaataactg cgatctagtc ttgaacacac tgatcttcaa tcgcttcgtg 420
 ttcttgca 428

<210> 21966
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-020-Q1-K1-F1

 <400> 21966

cccacgcgtc cgggtggtggt ctcatcctc gcgcagccgg gcaccaacat actgtcccg 60
 aggccgggct atccgaacta cgaggcgcg gcagggtgc acaacctgga agttcgccgg 120
 ttcaatctga tccccgagag aggggtgggag attgacatcg acgggtctgga gtcgatcgcc 180
 gacaagaaca ccaccgcat ggtcatcata aacccaaca acccttgagg gagtgtctac 240
 acccgtgagc atttggccaa ggtcgcgagg gtggcaagga agcttggaat actggtcac 300
 gctgatgagg tgtatggaaa tctggtgttt ggggacacc ctttcgtccc catgggggtg 360
 cttggccaca ttgccctgg gttgaccata ngatcact 398

<210> 21967
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-001-Q1-K1-C3

 <400> 21967

cccacgcgtc cggggacgg tgggcactcg cgaactccat ttgatccca tttgaaatca 60
 acccatcctc gtttctccg tctagcagcc tctaccctc atggccaaga tcaagatcgg 120

gatcaatggg ttcggcagga tcggaaggct ggtggccagg gtggccctgc agagcgacga 180
 cgtcgagctc gtcgccgtga acgaccctt catcagcacc gattacatga cctacatggt 240
 caagtatgac actgtgcacg gacagtggaa gcaccatgag gtcaaggatga aggactccaa 300
 gacccttctc tttgggtgaga aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat 360
 cccatgggggt tccgttggcg ctgaatatgt tgntgagtct actggtgttt tctactgacca 420
 agaga 425

<210> 21968
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-011-Q1-K1-G4

<400> 21968
 gagcgggaatt ggatggggtt gaatcccaaa caagtcaaac ttcttctcaa tttttttcaa 60
 gccgactcaa tccatgtggt ttgggaataa ccgaccaagc ccttagtggtg tttgttactt 120
 cattccgcat ggtttgggcc tttgaagtta aaagaatcat aagaccttgt tcggtt 176

<210> 21969
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-C8

<400> 21969
 cccacgcgtc cgcccacgcg tccgaaccac tacgatacac ccgttatagg ttgttatcgg 60
 taaactttta acggtcattc tatttcaaaa gttttgcatt ttgcact 107

<210> 21970
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-021-Q1-K1-B3

<400> 21970
 tgattataca gtattctgtc tctatagatt gtagctgcag cagtctgaac atgaaattaa 60

cgaacaacct cggctactgct tggccaggat cccggtgctt tcaactagtt agggctcgtt 120
cggtttagctc tcaatccatg tggattgagt gagattggat gagtttgaat cccaaacaaa 180
ttaaacttaa ttttttccaa tcccatctaa tccatgtgta ttgggaataa ccgaacaagg 240
ctttactggtt ttatctgtcc agcagtaccg aggttggttg ttaatttcat gataagagag 300
cgagtttcag caatgttcgt atactgatta tacagtattc tgtctctata gattgtagct 360
gcagcagtct gaacaaacat caat 384

<210> 21971

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-019-Q1-K1-H5

<400> 21971

tgcccatggt cggctgcacc gacgccacgc aggtgtacaa ggagctgcag gaggccatcg 60
gcgcgtaccc ggacgccttc caccgcgtca tcggcttcga caacgtcagg cagacgcagt 120
gcgtcagctt catgcctac aagccccccg gcagcgagta gagaccgtgg ctagatcgac 180
caatggccat gtctctgcct gttgatcgga tcaccttctt gcattgggtc ctctctctct 240
ccctccttgt ttttcccttt atctcatcat ttctttgcta ctgcatgcaa tggttccttt 300
tgcttccaac aattctctg ctgatgtatc cagcatggca tcatccatct acaattacgt 360
acgtagtgca acgactgtcg attcgttggg tgaggaacat atatgtgaat gcaagctccg 420
gctaccatac atgtgtaa 438

<210> 21972

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-002-Q1-K1-B12

<400> 21972

agcaagcaag caagcagcga gtacatacat actaggcagc caggcagcca tggcgcccac 60
cgtgatgatg gcctcgtcgg ccaccgccgt cgctccgttc caggggctca agtccaccgc 120
cagcctcccc gtgcgccgcc gctcctccag aagcctcggc aacgtcagca acggcggaag 180

gatccggtgc atgcaggtgt ggccggccta cggcaacaag aagttcgaga cgctgtcgta 240
cctgccgccg ctgtcgacgg acgacctgct gaagcaggtg gactacctgc tgcgcaacgg 300
ctggataccc tgcctcgagt tcagcaaggt cggcttcgtg taccgcgaga actccacctc 360
cccgtgctac tacgacggcc gctactggac catgtggaag ctgcccattg 409

<210> 21973
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-027-Q1-K1-H12

<400> 21973

gtcgtttgtga gaattcttaa ttcattgagtt gtatggaggg acttatgtca ccacaaacag 60
aggctaaagc aagtgttga tttaaagctg gtgttaagga ttataaattg acttactaca 120
ccccggagta cgaaaccaag gatactgata tcttggcagc attccgagta actcctcagc 180
tcgggggttcc gcctgaagaa gcaggagctg cagtagctgc ggaatcttct actggtacat 240
ggacaactgt ttggactgat ggacttacca gtcttgatcg ttacaaatga cgatgctatc 300
acatcgagcc cgttcctggg gaccagatc aatatatctg gaatgtagct tat 353

<210> 21974
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-021-Q1-K1-G1

<400> 21974

atcacacaca ctgcggaact ccatttcgat ccatttgaa atcaacccat cctcgtttcc 60
tccgtctagc agcctctcac cctcatggcc aagatcaaga tcgggatcaa tgggttcggc 120
aggatcgga ggctgggtggc caggggtggcc ctgcagagcg acgacgtcga gctcgtcgcc 180
gtgaacgacc ccttcatcag caccgattac atgacctaca tgttcaagta tgacactgtg 240
cacggacagt ggaagcacca tgaggtcaag gtgaaggact ccaagacct tctcttttgt 300
gagaaagaag ttgctgtgtt tggctgcagg aaccctgagg agatcccatg gggttccgtt 360
ggcgtgaat atgttggtga gtctactggg gttttcact 399

<210> 21975
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-D3

<400> 21975

aagaaaccca gctgttattg ctgacaatgt tggtgataat gttggagata ttgctggaat 60
 gggatcagat ctctttggct catatgctga atcatcatgt gctgctcttg ttgtggcctc 120
 tatctcgtct tttggaatca accatgaatt tactccgatg gtgtaccctc ttctcgtcag 180
 ttctgttggg attatagcat gtctcataac aacgctgttt gcaactgatt tcttcgagat 240
 aaaggctgtg gatgaaatag agcctgctct caagaaacag ctcataatct ccacaattgt 300
 gatgaccatt ggcattgcac taatcagttg gcttggctct ccatacactt tcactatttt 360
 caactttgga gtccagaaga cagtgcgaag ctggcaattg ttcttgtgtg tggcg 415

<210> 21976
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E3

<400> 21976

cggacgcgtg ggctttgctg ttgtgatctt cctcttcctt gggtcgggtg agggattcag 60
 cgacgaagag ccagccctgc acctatagca aggacaagta ctgcaagcct gcactgttca 120
 ctgcactctt tagcactgtg tccttcttgc ttggagccat cacctctctg gtctccggtt 180
 tccttggcat gaagattgcc acatatgca atgccagaac taccctggaa gctatgaagg 240
 gtgttggcaa ggcttttctc accgcttttc gctctgggtg tggttatggc ttctgcttg 300
 catcaagtgg gcttgt 316

<210> 21977
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-040-Q1-K1-D6

<400> 21977

cccacgcgctc cgccacgcg tccgatgtct gtgaaagaaa ttgagcctgc acttgggagc 60

agctcatcat ctccaccgtc ctgatgattt ttggtattgc tctaatacagc tgggtggccc 120

ttccagctaa gttcaccatc tacaacttcg gtactcagaa ggagggtttcc aactgggggtt 180

tgttcttctg tgtttcaatt ggtctgtggg ctggtttgat tattggtttt gtcacagaat 240

actacactag caatgcatac agtcccgtgc aagatgttgc ggattcgtgc agaactgggtg 300

ctgccactaa tgtcattttt ggtcttgctc ttggatacaa gtcggttatc atcccgattt 360

tcgctattgc tgtagcatc tatgtcagtt tctccattgc tgcgatgta 409

<210> 21978

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G8

<400> 21978

aagggtccact actctgctga tgacgctctc atactacagc aaaaagccca ggatgttctg 60

ccttacttgg atggccggtg cgtttatctt gttggaatga tgggttcagg caaaactaca 120

gttggaaga tactatccga agtgtaggt tattcgttct tcgacagtga taagttggta 180

gagaaggctg ttggtatttc atctgttgct gagatctttc agtccatag cgaaacattc 240

ttcagagata atgagagtga ggtcctgagg gatctgtcat caatgcacgc gttgggttgtt 300

gcaaccggag gtggtgcagt gatccgacca atcaattgga gttacatgaa gaaagggtg 360

accgtatggt tagatgtccc actggatgca cttgcaagaa gaattgctgc tgtaggaacc 420

gcgtctcgac cact 434

<210> 21979

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-009-Q1-K1-C12

<400> 21979

aaaggggtgg tgattacagt gaaatgtcta aggcgtacag accattccat gcagatgcaa 60

cggatgactt caagtatgga gttagagctg tgcattggagg tggaaaggta tcagccagag 120
 aaaccattgg cagggtggct gcaggagctc ttgcaaagaa aattctaaag ctcaaatacag 180
 gagtggagat cttggcattt gtttctaaag tgcaccaagt cgtactttca gaagatgcag 240
 ttgattatga gactgtaacc ttggaacata tagagagcaa catcgttaga tgtcctgac 300
 cataatatgc acagaagatg attgctgcca ttgatacggc acgagttata ggagattcaa 360
 ttggtggggg cgtcacatgc attgcaagaa atgttcctcg tggctc 406

<210> 21980
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-008-Q1-K1-C6

<400> 21980

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgag cacacacggg 60
 cgcattcagg cctagctcga gtccactact tgaaaaacag gaaaaagggt gcgtttgagg 120
 agatgacgaa gtcgtggag atagccagcc actgcgcgtc ggcattatgaa aagcggtcgg 180
 aatacggtag gcgcgaagct gcgaggagcg acctgaacat ggcgacgctt cttgatccta 240
 ccaggactta tccttacaga tacagagcag ctgtactgat ggacgaaggc aaggaggagg 300
 aggcgatcgc ggagctgtca ggagccatag ctttcaagcc ggaccttcag ctgctgcacc 360
 ttgcgcggc gttcttcgac tccatgggag agcgcgagag cgccctgtgg g 411

<210> 21981
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-012-Q1-K1-F3

<400> 21981

cgtggaaaac tttccggttc caaaggacct ttggcccctt ctttttaaga acctacctgg 60
 gtaaacctt tttgaaaagg ctctgtcct aatacttgta taaaatgaaa attatgtgg 120
 agccctatca tggaaccgaa gtatcagaga agtagttgac tggatgtcaa agaaaagtgg 180
 tattcctgct tctgagctta aggagcacct attcatgctg cgtgacagtg atgctacacg 240

ccatctgttc taagtatcag caaggttgga ctctttgggt ctcggtgaac gacaaatcct 300
tgctcaagtc aaa 313

<210> 21982
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A10

<400> 21982

cttttgtttt ctgatgatga atgcaacatc tgtttccacc attttcctct ttacagaata 60
cgactgctcc atgtatacgg agaaactaca tttcacggag tagtaaataa acagggatta 120
attagcgcca tgtgcatgca tgcatacggc gttaggctga cgcacatgat cataacagtt 180
aattaattaa ttaaggctaa gacacgaagc gtggaggatc gatgcgtccc cgccggcgca 240
gtatgtttta agctgacttg cggtagatgt gctagggcct gccggcggag gcgtccttat 300
gggtgtctat gacagtctcg aaagcgccga cgagcgcctt gaccctgctg cactggcgct 360
tctgcatcag ctaggtgcgt gccgactaga tcacgta 397

<210> 21983
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A12

<400> 21983

ggttgcggca aacgcgcgga aataatgtgc ttgcgtgatt gtttttctct ctcttttttt 60
ggttaataat gtaaaacagg catacggcga tgttttaaca tgtaaaactga gatgttggtta 120
ctcttttctca aagcgagtat gtagccccag tttccatcat ggcactcttc tcgttctgaa 180
gctttgggat agtctcgccg ctctcagctg actgggtgtcg tattcttgaa accttttatt 240
cgtgtcttgg tctc 254

<210> 21984
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A2

<400> 21984

cccacgcgtc cgggccactc tatgtcagat ccaggaagca cttaccgcac cagggatgag 60
attgcaggtg tcaggcagga acgggatcca attgaaaggg ttagaaagtt gcttttgact 120
catgacctgg caaatgctgc tgagctcaag aatatggaga aagatatcag gaaacaagta 180
gatgacgcta ttgctaaagc aaaggaaagt tctatgcctg atacttctga actcttcaca 240
aatgtttata agaagggcctt cggcgtggag tcatttgggc cagacaggaa agagatgaga 300
gcttctcttc cgtacgttgg cagcatgatg aggcagtcct cattacatgg tatgatagcc 360
aggaaaaata attattgatg aacgcctcag gcattattgg aatattctat cgggaaaatg 420
aacctgtata gagatg 436

<210> 21985

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A3

<400> 21985

cccacgcgtc cggcctttgt gagctcgcga gtggagagaa aaaaaggagc agcgaagagc 60
gaacgaccga gatgctggag aagctgtggg acgacgtggt ggccgggcct cgcccgagaga 120
caggcctcga gaagctccgc aaggccacca ccgcccggcc gctcgtcgtc gtcgacaaag 180
gtgcgttttg ttgcagtcca tgccgtcgac cccgacgacg ccggtgacgc cttctacgac 240
gacgacgccg cgcgggcgcca gcaacgtgtg ggcgacgctg ttccacccgg ggagcaacct 300
ggccaccaag ggcattgggcg ccaacctctt cgaccgtcca cagtccaact cctccaccgt 360
ctacgactgg ctctacagcg acgagaccag gagcaaccac cgttagatcg gaacggacga 420
atcgggtggt ag 432

<210> 21986

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A4

<400> 21986

cccacgcgtc cgcggacgcg tggggcattt cgagtaacac agttgagcac gacgatggga 60

tccctcgcta ataacatcat ggtcgtgggc gccgtccttg cggcgcttgt cgtctgcggg 120

tcgtgcgggc ccccggaagg ggcggccggc cccaacatca ccaccaacta caacggcaag 180

tggctcaccg ccagggccac ctggtaaggc cagcccaacg gtgccggcgc tcttgacaac 240

ggcgggtcgt gcgggatcaa gaacgtgaac ctgccaccct acagcggcat gacggcgtgc 300

ggcaacgtcc ccatcttcaa ggacggcaag ggctgtggct catgctacga ggtgagatgc 360

aaggaaaaac ctgagtcttc gggcaatcct gtcacggtgt tcatcacaga catgaactac 420

gagcctatcg ctccct 436

<210> 21987

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A5

<400> 21987

ggactacttc aagaggttgt tcatcttttt gaaggataag gatggctatt ggaggggggtt 60

tgctgtcaac ctggcctctg gtgggtgctgc tgggtctttc tctttattat ttgtgtacta 120

cctatactac gcgagaacat ggttatctaa tgactcgata tgctgtcaag ggaggaggtg 180

aaactcatta ctatgtgcac ggttatctat gccttatgac actgaagttt tatagtatcg 240

ttggtctata 250

<210> 21988

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A6

<400> 21988

attatatagg atgattacga aggtaacatg tttgggacag taacatttgc ttgaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa 180

aaaaaaaa ataaaaaaaa aaatagaaaa aaaaaaaaaa aaaaaaaata aaataaaaaa 240
 aaaaaaaaa tatagtataa aaaaaaataa taaaataata aaaaaaaaac attaaaaaaa 300
 attataatta aaaaaaagtg atttaaaaaa aaaggagaat gtataaataa tatat 355

<210> 21989
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-035-Q1-K1-A7
 <400> 21989

cccacgcgtc cggagaaggt actagatcgt ggtgaaaaaa tcgaacttct tgtggataaa 60
 acggaggatc tccgagcaca ggcacaagat ttcaggcaac agggaacgaa gatacgaaga 120
 aagatgtggt gggagaatat gaagatgaag ctcatcgttt tcggcatcgt ggttgccactg 180
 atcctcctca ttgtcttgac agtttgcaag gacttcgatt gctgataaga tgcaggaaca 240
 tgaaaggaaa gaacatgaga aaaaatgtag ggggagtgtg gtgccatgac accgcgggac 300
 caaaatccat catttgtgtg atgttggttg cattggccac aatgttctta gctacgccta 360
 gaacgatggg ctcaaattaa gttataacag ggctctctaa tattttaaat aattgtaata 420
 gtagcaaata tcg 433

<210> 21990
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-035-Q1-K1-A8
 <400> 21990

cccacgcgtc cggaaaagga gctagatagt tgtgaagaac gaattctgct cgtggataga 60
 acgacgcttc ttctatatca ggcacatgaa gctaagaggc acatttcaat gattcatgga 120
 cagatgggta ggcagaatag aaagatcaag ctgagagggg catgaatctt ggctacagtg 180
 acgcaagagg tagcgatgac agtgtgcaac gactactagt gatgatgaga ctcaagacca 240
 tcatgaggaa gagctctatg aacctgtat ggcacgagga gctaactgtg accgtgacag 300
 ataccatcat aactctgaag atggaggtgt tatacaagga cacgttcata actgacgata 360

cgacgatgga ctcagatatc gacatgacac cgct

394

<210> 21991
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-B1

<400> 21991

cggacgcgtg gggtttctagc aatgtggagt atctggcgtc aagggatgca acaatcatgg 60
gaagcaggaa tggccatgcc cctatcttcc tctggtacac cctcaacagg aagggtaca 120
gaggctttca gaaagaagtc caaaagtgc tggaaaacgc aactaccta aaagatcgcc 180
tcaaggaagc aggaatcgga gcgatgctta acgagctcag tagcacagtc gtgtttgaaa 240
ggccaaagga tgaagaattt gtccgaagggt ggcagctggc ttgtgaaggg aatatagctc 300
acgttgtggt gatgccagc gtcaacattg acaagctaga ctatttcctg aatgagttag 360
tggacaaaacg ggcgacttgg taccaggacg ggataagcca gccaccctgc a 411

<210> 21992
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-B10

<400> 21992

cccacgcgtc cgcggacgcg tgggtcctca tctactcccg ctccagctgc agctcggctc 60
tgtcctcgcc tcgcgtaggg ttctgcttcc cgtctggccg tcgtcagcat gggggacaac 120
tacgatgacg aaggcgagcc gatcgtgaac ctgcacgaac gggaaccctc cctgagcat 180
cagccgtacg aagacctcga tgacgacctc gacggcggcg gcgattggac ccgcgaccgc 240
tctccgaccc ccgtccacgg cgacgacggc ggagcagggt cctcctgcaa gccacgaaag 300
cgccttctca agacgggcgg cggcggaggc atgccggcg atgacgggct ggatgacttt 360
gggttggagg acgaggacgc agacccttcg gctgaggcga gga 403

<210> 21993
<211> 345

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-B11

<400> 21993

cgggctccca cttccttccc agcagctacc tgttcagccc caaggacaag agcgacgtca 60
 tgggtgtcaac cacctgctgg tgcattcatgc tcgcctccct cctcgccatg gcgtgctgct 120
 tcggcccact ccaggtgctc aagatgtacg gcatcccata cctggcgctc gtgatgtggc 180
 tagacctgga gacgtacctg caccaccatg ggcaccatca gctatctctg ccctggtacc 240
 acggtcagga atggagctac ctgctgcagcg gccttaccac ggcggacagg gactacagct 300
 ggatcaacaa cgtccaccac gacatcagga cccacgtgat tcac 345

<210> 21994
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-B12

<400> 21994

cggacgcgtg ggtgggagac tcacccggga tcacgatcac caacaccgctc attggcgctc 60
 gggacgactg catctccatc ggccccggga cctccaaggt gaacatcacc ggcgtgacct 120
 gcggccctgg ccacggcatc agcatcggca gcctagggcg gtacaaggac gagaaggacg 180
 tcacggacat caacgtcaag gattgcactc ttaagaagac gatgttcggc gtccgcatca 240
 aggcgtacga ggacgcgcgc tccgtgctca ccgtctccaa gatccactac gagaatatca 300
 agatggagga ctcagccaac cccatcttca tcgacatgaa gtactgcccc aacaagttgt 360
 gtactgcaa cgggcgctcc aaggtcaccg tcaaagatgt caccttcaag aacatcaccg 420
 gcacctgctc caccocg 437

<210> 21995
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-B2

<400> 21995

cttataacttg atagcttgga agatctgtca ggtcagaat tgtctactat tagaaaacag 60
 ctgattgagg aattttcagc agatgacatt tgtctgggat ctcatTTTtac tgaaacacct 120
 tcgaaatctg cagcacaaaa tggaaaactg caccacaaat ctatggaggt tattccattc 180
 ggatttgttt ttgaagatga tactctcctt gaagcatctg acagctcagt agaacctcac 240
 ttgcgacatc tgccatgtaa cagcgTtctt gatgttgacc ggcttcttaa ttcggTtttg 300
 gaaacatctc agcatgttgg aaggatgtca gtttcaacag accaggattt gcctttcaag 360
 gaggtagcca accaatgtga agcacttctg attgggaagc agcaaaagct atctgtctgc 420
 atgagtgttc gtg 433

<210> 21996
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-035-Q1-K1-B3
 <400> 21996

cccacgcgtc cgcggacgcg tgggaccgga aggggggaag agagatggat tcctccacgt 60
 cggcggcggc ggcaggggag gcggccgtgc cgtcggagga cgacgtctgc tccgtctgcc 120
 acgaccgctt ccggatcccg tgccaggcga actgctccca ttggTtctgt ggagagtgca 180
 tcatccgctt ttggaattat ggacctcctg tacaggcttg caagtgtccc atttgtcgcc 240
 gccttataaa tctactggtg cctgctgcat tatcagggca cgaggatggg ccacaagctc 300
 aacgtattct aggagagatt cagcactata actgtatatt tggTggagca ccacgcagcc 360
 taactcagag gttgcaagac ctacccttct tcatccgaag actgttcaga gaac 414

<210> 21997
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-035-Q1-K1-B4
 <400> 21997

cggacgcgtg ggtttttttt ttttgaattc aaaagcccc gtctggataa ccggtatttg 60
 aagaacaagg cagacaacga gtttcaatct gacgatttgc tcaattacac agctcgacga 120

caacatgtac gctcacagaa tgttttcttg gacaagattt tatttgaagt ctatcagcag 180
 cttaagatgt aaaagacgaa ctaccacagt tccaggctac ttcattcaac tcaatggaag 240
 ggtcagatca cctctccaat ccaggaacag cagcacgaga agcaaggcag cagcgccgct 300
 actccgcctt gacggtcttc ttgggctcgt ggagttcagg cgggcgggca tcctt 355

<210> 21998
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-035-Q1-K1-A1

<400> 21998

cggacgcgtg cgttcctagc aatgtggatt atatggcgta aagggatgca acaatcatgg 60
 gaagcaggaa tggccatgcc cctatcttcc tctggtacac cctcaacagg aagggtaca 120
 gaggctctca gaaagaattc caaaagtgtc tgagaaacgc acactaccta aaagatcgcc 180
 tcaaggaagc aggaatcgga gcgatgctta acgagctcag tagcacaggc gcgtttgaaa 240
 ggccaaagga tgaagaattt gtccgaaggc ggagctggc ttgagaaggg aatatagctc 300
 acgttggtgt gatgcccagt gtcaacattg acaagctaga ctatttcctg aatgagttag 360
 tggacaaact ggcgacttgg taccacgacg ggataagcca gccaccctgc a 411

<210> 21999
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-G3

<400> 21999

gacacatgta cagtcacaca ccatgagcgg gacctctcaa atctagagga gagcatgagc 60
 agctggccga ctgctgcgtg atggcctcac cttttccagc acgtgcgacg gccgcgccgt 120
 gcagtccggc atgaaggcgc agaggaacac cacggcggag accttggtccg ggaacgtctc 180
 ggcggccagc gcgacgttca cgccgtcgag gctgtggccg acgagcacga cgcgggtccc 240
 gttcggcagc gacgcgagga ggtccagcag cggcctgggt tagtcctgga acgtgggcac 300
 ctcccgacgc gcccgcggtt cggcgcccga tgccgccaat gtcggcgcggt cgacgcggga 360

ccccgtcgcg cggag

375

<210> 22000
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-G4

<400> 22000

gcacaaacag atcgcgcgat tacagcattg gcggccaagg tgttcctcct cctccgactc 60
agcatggctc cgcgcgtcct ggctgccatc gccacagtag cgctcgcgga ggaagccgat 120
ccgcggggcac tgccggcaca gtggaccacc gcgaagaagt acaaggccac gatggacgcc 180
aagacgcggc aggcctttcga cggcgtgggt gccgccgcta cggcagagaa gcggtcccag 240
gcggtggagg ccgtgctgca gcagcagctg aacatggacg tgtccctgtc caaggcgacg 300
tcttcggggg acgagaacaa ctacgtgagc gtggccgncg nctacgagaa agccgcgggc 360
gccgtcatcg cggcgacgcc ggacaacaaa gtcgcgcta tggcgctcgc g 411

<210> 22001
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-G7

<400> 22001

cggacgcgtg ggcggacgcg tgggaggaaa cggcagtga gtcgccggcg ccgccgcgac 60
aggaggaagg agggagtagc agcggcaggg gaggtccggc gatctcggct gctgtggcgc 120
ggtaagggag gaagcggagc cgcgacagga tgcactcggt tgggcaccgc gccaacgcgg 180
tggcaacggt tgccgtcacc atactggccg cgatgtgctt cgccgtctcc ttctccgaca 240
atgttaacac cctgacaccc accgcatccg tcaagatctt gaatataaac tggttccaga 300
aggaggccaa cggcaatgac gaggtcagca tgaccgctga acatttcggg tgacctttca 360
tctcttttca cgtggaacac aaaac 385

<210> 22002

<211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-G8

 <400> 22002

 cggacgcgtg ggctaacagc cttttggata aaagcatcat cggaatgcag aggctgtcct 60
 gttgaagggtt ttcctgtgtc tgcaatttta atctgtcctt ttgaataaaa tgtttcctct 120
 aacaagtga gggcactggt tttattgtct cgtgggccac agatgcctgc tgaacaattt 180
 atgttcattt cttcttttct taaaaagaag catgcactaa gaacatgaag gatgcatgcc 240
 atggaaagtt ttgaaagtc attgaaacgt atgagctcct catgc 285

<210> 22003
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-G9

 <400> 22003

 cccacgcgtc cggatgggtc aaggcaagtt caggcacctg ccggtgggtgg ataacggcga 60
 ggtgggtggc atgctggaca tcgccaagtg cctctacgac gccatctccc ggatggagag 120
 ggcgtccgag aaggggaagg cggcgatcgc caacgtcgcg gctggcgacg acaagtactc 180
 catcgtcgaa gctctcaagg agcaaatgtt caggccctgc ttgtctgcca ttattggcga 240
 agactcaaca gtcgtcatgg tgt 263

<210> 22004
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-H1

 <400> 22004

 tcggactagt tctagagcgc gcgggtccgc ctggccgagg ccgtgccgtc gtcgctcacg 60
 ctgcgggggc gcggcggggc cggggccggc gcgcgtttcc gcgtgcagtg cgcgatcctg 120
 tcgttgccg cgctgtggc gccaccgag tcgaggccgg cgcgccggat ctgcgcgtcc 180

gggccggacg ggcgcgtgcg gcccaagccg gctgtgctgg tcgccgagaa gctgaacgag 240
gtctggcttg ccgtgctgca gcagt 265

<210> 22005
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-H10

<400> 22005

cccacgcgtc cgcccacgcg tccgcggacg cgtgggattg ctggagctgg tgagcttcat 60
cttgagattt gcctgaagga tctgcaggag gacttcatgg gtggtgctga aattattgtt 120
tccccacccg tcgtctcctt ccgtgaaacg gttcttgaga agtcctgccg tactgtcatg 180
agcaagtctc ccaacaagca caaccgtctg tacatggaag cgcgcccctt ggaggagggt 240
ctcgtgagg ccacgatga cggccgtatt ggcccacgtg atgatccgaa ggtgcgctcc 300
cagatcctct ctcaggagtt tgggtgggac aaggacctgg ccaagaagat ttggtgtttt 360
ggacctgaga ccactggccc gaacatggtt gtagatatgt gcaagggaat gcagtatctc 420
aatg 424

<210> 22006
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-H11

<400> 22006

cccacgcgtc cggctctgta caagtgcctc gacacctgct ccgaggacat cgaggaggcc 60
gtggcgcacc tcagcgccct ctcccgcgac ttctccgacg ccaagttcct cgagggtcaag 120
tcctggctct cctccacgct cggcggcacc tccacctgcg acgacgcatg caaagacgcg 180
cccgtcagcg acatcaagaa cgctgcacac accaagagct tcgagtttga gaagctgctg 240
cgcgtcacgc tcgacctcat caccgatgcc tcagggtcca tgtcggccga ggctgcactg 300
cctccgtcgg cggcatcggg cgccagcggg ccggcaccgg cgccgttcgg aggttacggc 360
tcgtccgctg gcgccccggc ctacggcgcg ccgtctnctg ctggtgaccc agcttatg 418

<210> 22007
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-H12

 <400> 22007

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acattgaagt ctgggataga aaacatgctt atgcactatg tgacctgaggt gaaaggagta  180
gaacaggagt tcgatggtga tgaggaagct gaagtggctg gatagatcga gagagttttt  240
acaggttttg aggggtcaaca cagcctgatg ttatagcaac ttcgcacgta cggtattgcc  300
gatcctgatg tatgcaagaa gcaggcttag atagcagagg cgtcaatagt ctgaaataac  360
atccgttgca ctagtatccg aataaagtga cagtgaattg attttttatt ttcattaaat  420
ttctgtgtat atgtgag                                     437
  
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<210> 22008
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-H2

 <400> 22008

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agctgcgtcc ggcaccctcg atcacctgaa gtcgccgcct ttcgcgcgtc cggctgcccc  180
gaacccccgcc tcctatccat gggatcgatt cggaggaggg cagaagagga ccatgttcat  240
ccagacacag tcgaccccgga acccgagtc actcatgttc tctcctggaa agccagttat  300
ggagattggg agctctgatt tccctaatagc tcggactgcg atgacatccc ctttggttaa  360
gtcgcgttttt gctattgatg gagtaaccag tgtattcttt ggatctgatt tt         412
  
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<210> 22009
 <211> 373

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-034-Q1-K1-H4
 <400> 22009

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 ctgacctccc aaagctgtgg tcgcatcca aacagaaggg aaatgatcag gcgacaaccc 180
 ggcattggatc ggttcctgca gctgctggcc gccggcgtgg ccgtgctact gctagtggca 240
 ccgncggcca tggctgacga cgacattgta gaagtcggcg tcaactgggg ttcgcagctc 300
 tcgcacccgc ttctccccgg ctccgtggtg aagatgctca aggcgaaccg catcgccagg 360
 ggcaagatgt tcg 373

<210> 22010
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-034-Q1-K1-H6
 <400> 22010

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 ggaggccttc agcctcttcg ataaggatgg cgacggctgc atcactacca aggagcttgg 120
 aacggtgatg cgctcccttg gccagaaccc taccgaggca gagctgcagg acatgatcaa 180
 cgaggtcgat gcggatggca atgggaccat cgacttcccg gagttcctga acctgatggc 240
 gaggaagatg aaggacacgg actcagagga ggagctcaag gaggccttcc gcgtcttcga 300
 caaggaccag aacggtttca tctcggctgc cgagctccgc catgtcatga ccaaccttgg 360
 cgagaagctg accgacgagg aggtcgacga gatgatc 397

<210> 22011
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-034-Q1-K1-H7

<400> 22011

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agcagcaagc ccacccggtc gacgacatgg cccgtctcgg cgccggcgcc gtgttggcgc 120

ttctagtggc ggtcgcggcg gtggccgcgt tcctcgcggt gccggactcg gcgaagtccg 180

gggagctgag cgcgatgggg ttgctggcgg cgaaaggcgg cagcggcgcg ggccccgaga 240

agtgcttggg cgcggtgggc gagtgcgacg tggacgaagc 280

<210> 22012

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-H8

<400> 22012

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atggctgtgg cggttggtgtt cttggtgagc ggcgcatggt gcggctcctcc caaagtcccc 120

ccaggcaaga acatcacggc cacctatggc aaggactggt tggacgctaa agcgacatgg 180

tatggcaagc cgacgggtgc cgggtcccgac gacaacggtg gcggctgcgg gtacaaggac 240

gtgaacaagc ccccttcaa tagcatgggc gcatgcggca acatccccat cttcaaggat 300

ggtctgggtt gtgggtcctg cttcgagatc aagtgcgata agcctgtgga gtgctccggc 360

aagcccgtag tgggtgcacat cacggacatg aac 393

<210> 22013

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 22013

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ctgaggaaag gattggactc tctcattatc ctggcagcat tgatgatctg gaagcatacg 180

aacgaagtga tgctcaaagg agtttctcct aatctcactc ttctnctgga gtctgcta 240

gaacgaaagg gacaaatggc atgttgacg acccaac

277

<210> 22014
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-G2

<400> 22014

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gtgtcgattc actgccaagg atgcaagaag aaggtgaaga atgtgctcca gaacatcagc 180
gccgtgtacc gatgcgaaat cgatgcccg agcaacaagg tcgtggcgac ggtctcgacg 240
gagctcgacc cctacatgct ggctcgccaag ctgcgcaagt ccggcaagca agcggagctg 300
tggccagagc agccggtgca acagcatgag cagccggcac caccaactga gaaccaaagg 360
caagatgaag cccaaaacaa cc 382

<210> 22015
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E7

<400> 22015

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cgcagatgct gctggagcac ggcgaccgca tcctgtcggg cgccacgttc gagttcggtg 120
cggcgcccggt ggaggtctcc gtgaaagtgg gcggcattca ctgggactac ggcagtcggt 180
cccacgcccg cgagcttacc gcgggctact acaacacgcg gtgcca 226

<210> 22016
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E8

<400> 22016

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ggcacatggt gcgtaagctg tgaccaccgg cgtcgcgatg agctgtccac ggcaccgtca 120
ctgagaagcg tctcgaacca cataacataa cccgcacttc aggcaaggac cgctgacgcg 180
ctgcagcact gtctcaagca tggcatacag ggccttggtc agacgaccac tgacaagacc 240
attggtacag gggctgaagc tagcaacact ttattaactt ggactcatgc tggaacacac 300
gtatcctgag cgagtgtctg gga 323

<210> 22017
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-034-Q1-K1-E9
<400> 22017

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tcagagaagg cccccgacgg tgcccccaac gactcgtcgg ccagccctta cgcgtacccg 120
tacgaagatg aagccactgt atcgcacgat agcagcagcg gccgtggcag tgcccgctag 180
gaagagccct cgacggccga ggccggccgc gaatacgacg atagtccacc cgagccagcc 240
catgcttcgg agtcaccagc agagtctcct ggcccgacg ctgaccacga gagccgacgg 300
ccgagcatgg gcaccggtgg cggactggcc atgctggccg acgatgtcac cgtgacgctt 360
cctttctaga t 371

<210> 22018
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-F1
<400> 22018

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cgtcaccgtc gtcgctcgcg ctctccgcc ggatcggagc gagagtaggg gcggtgcggc 120
ggtgaaagcg actgcgtcag ccatggcgga cgaggagcat tcggagagga gagaggaggc 180

ctccgagctt gcccccttcg acccgaccaa gaagaagaaa aagaagaagg ttgtcatcca 240
agaaccttct gatgaagtgg acaagcttgc agagaagaca gaaacactgg cagtcgcaga 300
acccgctgaa ctttaacttca ctggaatgaa gaagaaaaag aagaagccgg tggatcttga 360
ttcaactctt gatgagcttg gagatgggga ggacactcaa gatgatcaag ctgtagagg 419

<210> 22019
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-F10

<400> 22019

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tttggccttt cacgtctcaa gcgcgaaact ttcttgacaa caaaaacggg aaaaggaaca 120
ccgcaatgga tggcgccaga ggtgctgcgc aacgaacctt ccgatgaaaa gtctgatgtg 180
tatagctacg gggtgatcct gtgggaactc gttactcaga agataccctg ggaaaacctg 240
aactcaatgc aggtcattgg cgcagtaggt tttatgaacc aaagggttga tatcccaagc 300
gaagtagatc ctcaagtggag atcaattatc ctgaactgtt gggaaagcga cccgcagcaa 360
cggccgtcgt tccaagagct tctg 384

<210> 22020
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-F11

<400> 22020

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aactccatcc cgaagcggca gggcggcaag aagaaggccc ccaaggcgaa gacgaactac 120
ggctgcttag atagctgcac gcctcaggtg ggggtgatca ggagacaggt ctatttcgaa 180
gcaggctcag cgcgatgcag cgaatgccat cgagctgcgc tttacatgt ttatcatcag 240
attccatttt gcggcccgaa caaagggtgtg accgggggtg gttaggcgac tagattgcac 300
gattatgtac ttg 313

<210> 22021
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-F12

 <400> 22021

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 actgcaaatt ttgaaaactg aactgtaaga tggcatcagc agagctttcc cgtgaggaaa 120
 atgtgtacat ggcgaagctc gccgagcagg cggagaggta cgaggagatg gttgagttca 180
 tggagaaggt agccaagact gttgactcgg aggagctcac tgtggaggag cgaaacctcc 240
 tgtctgttgc atacaagaac gtcattggag cccgccgcgc ctcatggcgc atcatctcct 300
 ccatcgagca gaaggaggaa ggccgaagca atgaggaccg agtaacactc atcaaagatt 360
 atcgtggcaa gattgagact gagctgacca agatctgtga tggc 404

<210> 22022
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-F3

 <400> 22022

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 aggtggacgc ggacggcagc ggcgccatcg acttccagga gttcctcacc ctgatggcgc 120
 gccagatgcg ggaggccagc ggcgccgacg aggaggagct gcgcgaggcc ttccgcgtct 180
 tcgaccagga ccagaacggc ttcatctccc gcgacgagct ccgccacgtg ctccagaacc 240
 tcggcgagcg cctctccgac gacgagctcg ccgagatgct tcgcgagggc gacgccgacg 300
 gcgatggcca gatcaactac accgagttca ccaaagtcac gctcgccaaa c 351

<210> 22023
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-034-Q1-K1-F4

<400> 22023

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gaccgtccgt cggcatctct tcgggcgacg aggtgtgggt tgctcgctac attcttgaga 120

ggatcaccga gatcgccggc gtggtggtga cgttcgaccc gaagccgacg ccgggcgact 180

ggaacggcgc gggcgccac accaactaca gcaccgagtc catgaggaag gagggcgggt 240

acgaggtgat caaggcggcc atcgagaagc tgaagctgcg gcacaaggag cacatcgcg 300

cctacggcga gggcaacgag cgccggctca ccggcaggca cgagaccgnc gacatcaaca 360

acttcagctg ggg 373

<210> 22024

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-F5

<400> 22024

aggagttcga gaagaacttt gctgttaagt tcccagcttg ctcaatcgcc gcgaagcacc 60

atattgacca gagcacaaca attcttgacg tgcaaggagt ggggatgaag caattcagta 120

aagctgcaag ggagctcatt ggcatgcttc agaagattga tggtgacaat tatccagaga 180

ccctgtgccg catgttcacg atcaatgcag gccagggatt ccggcttcta tggggcaccg 240

tcaagagctt tcttgacca aagaccactg caaagattca tggtctgggt aacaagtatc 300

agagcaagct tctcgaggtg attgatgcta gtgagttgcc agaaatTTTT ggtggaacct 360

gccgatgtga aggtgggttc atgaaagctg acaaaggccc ttggaaggac cccgaaatca 420

tg 422

<210> 22025

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-F6

<400> 22025

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gaaagatctt cttcttcaat caatatcagt tctcgtacag tataaagaat tcatgcttgt 120
 tttcgagaac aatcgggagg ctataaataa aatgcctaga tcacttttat cagcttttga 180
 caacagatca tggattcctg ttacaaacat actttcccgg ttctgcaaag gctcaggatt 240
 tgcttcctat aagaatggtg aatccccatc atctgcaact tttcaggttc tactgaagga 300
 gacatgtatt catgaacaag agctgttctt ttcctttctt aatcgactgt tcaatacact 360
 cagctggaca atgaccgagt tctctatgtc catccgggag atgcaagat 409

<210> 22026
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-034-Q1-K1-F7
 <400> 22026

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 ctcatccgct ggatctcctc cgcgactcct tcgagggcta cctgggcttc taccgaggg 120
 agagccgctg gaagggccgc tacgagcggg gccccgccga gggcagctcg ccttggggcg 180
 tcgccttgct cgtcctcctc ctctcgtgc tcgccagctt ccactccacc atccacgaca 240
 tgtggggggc gtgaacggcc ggatgtgggt cctgctcctg ttcgattcca cgcgcgcacg 300
 tatgcgattg tactgctggt tgctgcttga tcgatcgatg gatcgatgat tccatgtaca 360
 tatttgttag ggggatgctg ctgctaggct attagctgca ggctatagaa tttgagggtg 420
 atatatactt act 433

<210> 22027
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-034-Q1-K1-F9
 <400> 22027

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 tcgccgtatc gggggccgcc aacgccgcgg cggcgcccgg cggcatgtcc atcatcacct 120

acaacgagga gcacggcgcg cgggggctgg agcggacgga gccggaggtg cgggccatgt 180
acgacctctg gctcgcgag cacggccgcg cctacaacgc gctgggagag ggcgagggcg 240
agcgcgaccg ccgcttctc gtcttctggg acaacctccg cttcgtcgac gcgcacaacg 300
agcgcgccgg cggccgcggc ttccgcctcg ggatgaacca gttcggcg 348

<210> 22028
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-G10

<400> 22028

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ggcgctccgat aaggcgaagg cggcgatcgc caacgtcgcg gctggcgacg acaagtacta 180
cagcgtcgaa gctctaaagg agcaaatgtt caggccctgc ttgcctgaca ttatagccta 240
acactcggca cccaaaatgg agtcactctg cgatttctac catgcagcta cca 293

<210> 22029
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-G11

<400> 22029

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caacttacgt aaaggcaata cgatgcatag aatagtgcc aagttgtgtt atgtatttcg 120
ttcattcctt gatcttgcac caaagattca aggctaagtc agcctgctgc aaaggttttg 180
gttgaatcct tgtatactgc cagataaagt gttacgatgg tgcaatcttg gattagcctt 240
tggcctacga atacatcacg aacgggcagg cgatgctgaa gatcc 285

<210> 22030
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E6

<400> 22030

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aaggaagtac agtgtctgga ttggaggatc catcctggca tcgctcagca ccttccagca 120
gatgtggatt gccaaaggctg agtacgacga gtctggccccg tccatcgctgc acaggaaatg 180
cttctaattc tttgggcca agagatgcaa agccgagagg agccattatc gccagtctgc 240
cgccccgttt ctttctcctt ttggtgct 268

<210> 22031

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-C9

<400> 22031

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ccttctcctc ccccatcctc tcccttggtg ttctagatcc actcctcccc gtgctcactg 120
ctcatccgcg aacaggttga gcggggacgc cgtggagggg cgagggggag ccagattgag 180
ccatggcctc ctgctggggtt cttgccctgg ttcttgcgct gtcggcaggc gcaagcctgg 240
cgcggtggctc cgagccgtgg tggaacgaga cgcacgtgta cgccaccacc gacaactccg 300
gtggcggcaa cggcgctctc gtcggcctca cgctcatcca gtc 343

<210> 22032

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D1

<400> 22032

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tgcatgtggt aaacctggag ttcggatccg agagggtctgt gaaatcataa atagacatgc 120
ttcgatgtca gggttatctg tagggaaatc ctattgcggc catggcatag gggaactgct 180
tcaactgtgcc ccaaacattc ctgattattc aaaaaacact gctgaatgta tcatgaaggc 240

tgggcagaca tttacaattg aaccagtgtg taatgcattc tcaatcatca cgccacagac 300
gatcat 306

<210> 22033
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D10

<400> 22033

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aaacaatgcg atgagagcct tgttcctcct ggtcctcttc tgcacgtgc atggtgagaa 120
ggaagagtca aagggcatcg atgcgaaagc gtccgggcct ggtgggtcct tcgacatcac 180
caagttgggc gcctccggca atggcaagac agacagcacg aaggctgtgc aggaggcatg 240
ggcatcggcg tgcggcggca ctgggaagca gacaatcctc atacccaaag gtgacttcct 300
tgtcggacaa ctcaacttca c 321

<210> 22034
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D12

<400> 22034

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tccacagatt gcattcatcc gaggggcgat taaaatcaag gggagcatca gtgcggcgca 180
gaagttcacc cctgacatct tccccaaagc tgccaagctg tagaacgtta gattgtatta 240
cttggtcgag gtgaataata atgtttgcaa gcttcaatta ctatgtacga gatacaatga 300
gtggaacatg aaaagcacgt tcttcgtggg aatttggata tggttgaac 349

<210> 22035
<211> 485
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-D2

<400> 22035

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cgcggtgtgag ccttctagtt ccgccaagcc gtgcgtactc ggcgtcgcgg atctcgggac 120
tcgaagatga ctgtgagtc ctggtgccgg aacaaggccg gggatggcca gcatcaagga 180
gatgccggtg gtgcaggacg ggccgcccgc gggcggtttc gcgcccgtgc gcttcgcccg 240
ccggatcccc acctcggggc ccagcgccac cgccatcttc ctcaccacct tcggtgcttt 300
cgcatatggc atgtaccagg tcggtcaggg gaacaaggtc cgtcgggcgc tcaaagaaga 360
gaaaattgct gctcgcagtg ctatactgcc gatgctccaa gcagaagagg atgaaagatt 420
tgtcatagag tggaagaagt atcttgagga agatgctagg atcatgaaag atgttcaggg 480
tgga 485

<210> 22036
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-D4

<400> 22036

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ttgtgatacc ttgtatttta cttgatcaat tgacaattat acttcactat gtatacagat 120
gaaatttttag attttacgtg atatatcaat atgtaattga tgggcctatg aaattctgag 180
aattcagaga agtggttgatt tggtgccgga cacatcactc agccattgaa ttgttgccgg 240
acttgcttct tttgtttcct tggtgaattc tggtatatat ggcagggatt aaccgaatga 300
atattttgag gcanggatta aaccatagag ggattaaacc cccaaggga 349

<210> 22037
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D5

<400> 22037

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cctcgccctg gcgtccgcgc tccttgggtgc ggcgcgggcc gccgcgaacg cgcccggcgg 120
ggcgttcagc aactgggtgg cgatgaacca gcagagctac gcgctgtac gcgagaagtc 180
cgtcggggac gggggcaagg agcccctgga caagaagctg tcggaggcgg agaagaagaa 240
agtcacgtac gtggtggacc ccagcggcaa gggcgactac accaaacata ccgcggcgct 300
ggaggatata ccggtgagca acaccaaacy cgtgatcctg gacctcaa 348

<210> 22038

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D6

<400> 22038

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aaacatagtt cttattaaca tatttcgttc gaatgaatga aaatgaatca tacataaaga 120
ccacatttat agatttacta atgtatgttt agtctaaaaa tactatttta agaccgaggg 180
ggtactatatt tccgtggacg aattgaatgc cagaaataca gcggaaagtt ttcgagatat 240
tgtctccaat tatcagcaac tagcgtctaa ttagacagtg attagtttct agagattaaa 300
ttttagtttc tccattttat tttattctag ttcctaaat 339

<210> 22039

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D7

<400> 22039

aattaaaatt gttcattagg attaacttat tctaagcact aaataatttc ggaaattcgt 60
aacttaataa tcgtagctcc gaatttagtg gttcttattt ataggatctc gttatgcagc 120
gtagaatatt attatatagt ttattcctat gtttggtgta atgttaattt tgcctatacc 180
atgtttgtct gtattgctac gtttagcagt gaggacacat gtcattctgaa gagcaagttg 240

gtacctggaa tctcaagtgc taggcaagtt gtgcccttga tcactttttt ttaccagtc 300
atgttctgat taatcataat gatctgcata ggtaatttt gatgggaccc aacaagttac 360
cctaatttgg atatctttat accttgactt cactaaactt tttgggta 408

<210> 22040

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D8

<400> 22040

cccacgcgtc cggtggcaaa cttcccgtcc tgcattgggt tgtaagctgt ctctaaattg 60
cacggcaagt cgtgtgcctg aaccttcac ttaagttggt gtcgtatccc ttcgtcttgt 120
ttcggttgca ccccgatgat gtagtgattg gttgctgacc acttgatcta tctattctgc 180
atcttccttt gaaatgtacc cttgtgcatt tggatgcttc tagtgtactg ttcttgcatt 240
gttactcata tgaccgagca gttgagtaca gcgtgactgg gcttctgaag cggccaaatg 300
atcaagaaac cgttctggcg atgcctggag agtggccctt aaaaagtatt caggcaagcc 360
ttggggatgg aggttaaata gacctgggta aaaattatct 400

<210> 22041

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-D9

<400> 22041

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cacaagtatt acatgagatt gacacttaaa gtcaagggtga tctctgatcc caaggcctac 120
gcatcacgc aattactcac cccctcaata ttactatcta gaaacacatc atgtctttaa 180
caacaccgtc tgaacataac gttccgatg taaaattat aaccttgct cagcataa 238

<210> 22042

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E1

<400> 22042

gctcgaggat gctatctcga agaagagaag gcgccgcacg gaccagggac atgaagctgg 60
tagcatgggc actggttcta gcctggagca agggccacag ggagtgtttg aaccgcagga 120
gccggtggaa tcagtcgcca acggtgtgcc atctgatctg gagagtctgt ctgttgaggc 180
gaagggattg gaggttcgac aggggtgtttc ttcaggtggg tctgagcatc tgaatggcag 240
gccaaagcga gagttaaatg atgatttctg ggaggacctt ctgcatgagg tgggactcgg 300
cgcaaagcga ggcaatgctg ttggtcagga tgatatgaac atggacatgg acccagatgt 360
tagcctgcct taactgatac aacatgga 388

<210> 22043

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E10

<400> 22043

atcctctccc tctccgtccc ccaagcaaag aaaagaagct agctagctag gcgtagaacg 60
aatgacgacg cagggcggca acaggtcgac gacgacgctg gtgcgcgccg tggccgtagt 120
tctggccgtg gcggcggcgt cgtccctggc cggcgtggcg tccgcggaga aggcggggcg 180
gttcgtgggtg acggggcgcg tgtactgcca ccctgccgc gccgggttcg agacgaacgt 240
gtccaggagc gtggccggcg cgacggtgga ggtggtgtgc cggcacttcg gcgcgtccaa 300
agagacgctc aaggcggagg cgacgacgga cgacagcggg tggtagaagc tggagatcga 360
ccaggaccac caggaagaga tctgcgaggt ggtgc 395

<210> 22044

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-034-Q1-K1-E12

<400> 22044

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tacgactcca aggtcacctt ccaccttgaa aaggggtgcg gcccacta cctggcactg 120
 ttgggtcaagt acgtcgacgg cgacggtgac attgtggcag tggacgtcaa ggagaagggc 180
 tccgacacgt acgagccctt gaagcactcc tggggcgcca tctggaggaa ggacagcgac 240
 aaaccgctta agggaccctt caccgtccgc ctactaccg agggaggcac caagtccgtc 300
 tacgacgatg tcatccctgc caactggaag gccaacaccg nctacaccgt caaataatta 360
 acttttagtgc tgacaatact ttaagctgac ctatgctagc tatactagat tgggttggat 420
 cccaagcaat gcattacaca 440

<210> 22045

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E2

<400> 22045

attcactaat ccaagacaaa acatggctgt gaatgtgaga accatgtggt cgtcgatgcg 60
 ggcacatgtt gcgatggctg tggcggttggg gttcttgggtg agcggcgcat ggtgcggtcc 120
 ttccaaagtc cccccaggca agaacatcac ggccacctat ggcaaggact ggttggacgc 180
 taaagcgaca tggatatgga agccgacggg tgccggtccc gacgacaacg gtggcggtcg 240
 ctggtacaag gacgtgaaca agccccctt caatagcatg ggcgcatgcg gcaacattcc 300
 catttttaaa gatggtctgg gttgtgggtt ctgcttcgag atcaagtg 348

<210> 22046

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-E3

<400> 22046

tccacgcgtt cgaagagatt cgatgattta aaaaccacaca cgacatgcat acgctgggtg 60
 agacatggat tctctctgaa ggcgctgga cactgtttaa tctgcaccg tgaggattag 120
 tctgtgtgag catggctgcc gtccgtatcg ccgttactgc tcccagcgtc gtctcccatg 180
 agttgctact cgatatcaga tcttcttctc tattctttct taccattctc tccaatagat 240

<210> 22047
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-E5

 <400> 22047

cgactcgcga tcgaatccgc cccgagtcga ttccgcgcgc gaccgcccgc ttcacttgcc 60
 ttttctcccg agatctcgac tctcgagcaa gtatgggtga ggcgaaggac aacgaggtgt 120
 acgaggagga cctagtcgac tatgaggagg aggtggagaa tgtcattgat ggcgccccca 180
 ccaacggctc ctcagatgtc gtcaagaagg ggtacgtagg gatccacagc tcgggggttca 240
 gagacttcct gctcaagcca gagcttcttc gcgccatttc agaatgcggg gttgagcatc 300
 cttctgaagt gcaacatgag tgcattccctc aggctattct tggaaaggga tgcattctgtc 360
 aagcagaatc tggaatgggt aagactgc 388

<210> 22048
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-C8

 <400> 22048

cgcgctcctc ggccctccgc tcccgtgcac ctgcgcgcgc ccgcacctgc cctgcctgct 60
 ctcccttctg gcgcgctacc cgtccctcgc cgccggatcc ctccacgccg cctccgcgc 120
 ccgcttccca ttcgctggcc ccaccgagga cgaggaccac cgtcaggagg gggccgagga 180
 ggagggggag gagcaggccg tcgatgcgcg gaaggaggaa cgggaccttc gtcaccgcga 240
 ggaggcgcg accgagctac ggcgggagct ggagaaagag cgcagcgccg cggcgctcggc 300
 gaccgaggag gccatgtcca tgatcctgcg cctgcagaag agaagtcggc gctggagatc 360
 gaggtgcgac agcagcg 377

<210> 22049
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-B2

<400> 22049

gaccaggagc tcgagaatgc caagagcagc tcaatctgtg gagaagagct acgagctgcc 60
tgatggtcag gtgatcacca ttggggcaga gagggttcaa gatgcccttg aggggtcctc 120
tttccagccc ttccttcatt ggtatggaag ctcttgcat ccatgagacc acctacaact 180
ccatcatgaa gtgcgatgtc gacatcagga aggacttgta tggtaacatt gtgctcagtg 240
gtggcacgac catgttcctt ggtattgcgg accgtatgag caaggagatc actgcccttg 300
cgccgagcag catgaaaatc aangtggtgg caccgnctga gaagaaatac agtgtctgga 360
ta 362

<210> 22050
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-B3

<400> 22050

cctgcgctgg cggccacccg tcagcgtact ctcttctgcg cgtctacggc gctcgtgctc 60
tgcggaaccac aatctgctca tcaagcactg ctcgcttgca tgctcgcgtc tccatgggtc 120
tactgtcaaa caggattgcg aaggctagcc tctgagccgg ggatcatatc tactcctgga 180
cggcagcgtg agcatacaca cctcactgga tacatgcatg ccaccataag 230

<210> 22051
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-B4

<400> 22051

cccacgcgtc cgctctctcg cgcgcgcat acttgcaagt acgagctcag aaggaaggca 60
gaggcanaag cagccatggc gaactcgtcg tacggccttg cggatgaacga cgagtgaag 120
gtgaagtcc aggagctgaa gtcgcggcgg agcttcgggt tcatcgtgtt caggatcgac 180

gacacggaca tggagatcaa ggtggaccgt ctcggcggac cgaaccaggg ctacggcgac 240
 ttcaccgaca gcctncccg ccaacgagtgc cgctacgga tctacgacct cgacttcacc 300
 accatcgaga actgccagaa gagcaagatc ttcttcttct cctgggtccc tgacactgca 360
 cgcaccagga gcaagatgct 380

<210> 22052
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-034-Q1-K1-B5
 <400> 22052

cgcacgggca gctggcgctc tcggaggacg gcgtggagat gaccttcgcc accaactgcc 60
 tggggcactt cctgctgacg aagctgctgg tggagcggat ggcgagacg gcggcgcca 120
 cgggcgtgca gggccgcac gtgaacgtgt cgtccagcgt gcacggctgg ttcgccggcg 180
 actgggcca gtacctgcac ctctcacc gccgcaagat accctacgac gcgacgcagg 240
 cgtacgcggt gtccaagctc gccaacgtgc tgcacacccg cgagctcgcc gcgcgcctgc 300
 aggaaatggg cgccaacgtg acggccaact gcgtacaccc gggcatcgctc aggacgcgcc 360
 ttaaccgca cgtgacggc gtcctaaccg gagagggaac tgacagcgc 409

<210> 22053
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-034-Q1-K1-B6
 <400> 22053

cccacgcgtc cgaaccctga aattctgaac atcgatcgag tggcccagcc aattccccga 60
 ggcattggc ggcgtcgtct tcaccatggc ctccaactcg tgtgcctcgt cgccgtcgtg 120
 ttgacggcgg cccagctgc ccatgcaatc ttccatttcg acatccgttt cgacgccggc 180
 agcccgttct tcggcggcgg cactccagg catgacatgt ggcgccgcgc cgacctcgag 240
 agcaacgcca ggctgtccag gagactcgcc agggccctcg gcaacaagca gagcggggcc 300

gncgccgacg ccacgtgga acccgacgtg acccttttcc agtacacca gcaaggccac 360
tccc 364

<210> 22054
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-B8

<400> 22054

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gcggtggtcg tcggtgtggt cgccaccgtc acccgctccg gcaagaaggc cggcgacaac 120
ttcacggtcc cgggggaggc ttcccttgcc acgtccggca agtcgggtcaa gtccttctgtc 180
gcgcccaccc tatacaagga gtcgtgagc aagacactgt cccaggccac caatggcacc 240
gagaacccca aggaggtgtt ccacagcgtg gccaagggtg cgctggagtc ggtccagacg 300
gcggtcgagc agtccaagtc gatcggcgag gccaaggcca gcgactacat gaccgagagc 360
gcgcgcgagg actgcaagaa gtccttgaa gacgccgncg acgacctgag gggcatgct 419

<210> 22055
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-B9

<400> 22055

acgcagacaa tggcgcgcaa cctgtctgtc acattgttca ttctgacggc ctatgtcgcc 60
gggacggcgg caccgaccgt ctgtgcggtc aaatctccgg cgagcacaac gaccacaagg 120
aaacacgaag cagccaaaga agagacggat gcgcctgcca aggcaccagc tgctgcagcc 180
accgacgggc ctgctgcgtg agcggccatg acatggccgg atggcggggc tgagtctgtc 240
aagatggtca tcaagaaccc gttcttttaa agcgcacctc catctggtag cgaagacggc 300
ctaccattg accccactac agaaggcagc atgaactaaa ctaaatacca attacgagac 360
cgaccagata tgcattggagc atgcaagaat gctgtcgaac gaatatatgc tatgaatggt 420
tacatgt 427

<210> 22056
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-C1

 <400> 22056

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 gcggcggcac tggttcggag ttcgacgacg gcacctcgcc caagttcccc ggatgcgaca 120
 acacgctgca gaaagtgaag gtgacgtact ggggtggacgg cgacgagcgg agcagcctta 180
 cggggatcag cgcgaggttc ggcgcggtcc tgccggacgc tgcgcccagc gacgagaagc 240
 atcggggcgt cgggcccagc cccgagagcg 270

<210> 22057
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-C10

 <400> 22057

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 gagccttggt cctcctgggt ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg 120
 gcatcgatgc gaaagcgtcc gggcctgggt ggtccttcga catcaccaag ttggggcgct 180
 ccggcaatgg caagacagac agcacgaagg ctgtgcacga ggcattgggca tcggcatgcg 240
 gcggcactgg gaagcagaca atcctcatac ccaaagggtga cttccttggt ggacaactca 300
 acttcacagg ccttgcaag ggcgacgtga ccattcaggt ggatggcaat ctgctggcga 360
 ccacggacct aagccagta 379

<210> 22058
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-034-Q1-K1-C11

 <400> 22058

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aaaagaatta gatgaggatg cacggtgttt ccaaaggcca cctgcttgca tcataaaata 120
cagtgatatt ttgaatcatg cagcaaaggt ttatacacat agaatctaca aactgtttga 180
gacagatttt cttgatgggt gtggagccac aaaattcaaa gagcttccgt gtcaagataa 240
caatacatat caatttgaga tgactatgca agggcgagga tcaagagttt gcacagttca 300
tttcaatatg tctatgatgc aattaagttg cagctgcagt aagtttgaga caatgggttt 360
actttgcca catgctttga aagctcttag tataaaaaat atatgcaaaa ttccagaaag 420
ctacatac 428

<210> 22059
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-C12
<400> 22059

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ccgccccgc taggaagccg cccgtgcaca catctgccgc ctccggcggc gccgggtggg 120
acgactggga cgacgatttt cgcccgga tgaggcgga tcaatcggtt ggatcgttcg 180
ccgcccggg tgccagtcg gggaggcagc cgccgaggtc caaatcaaca caggacatgt 240
acacgaggca gcaactggag gcgtcggcgg ctaataagga ggactttttc gccaggagga 300
tggcggagaa cgagtccaag cctgacggga tcccgccatc ccaggcgggc aagtacgttg 360
ggttcggatc cagcccaccg ncgtcggcta acaggaacgg ccgtgcttgc caggcgcatg 420
tcatg 425

<210> 22060
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-034-Q1-K1-C2
<400> 22060

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caagacaaaag gtaatggagt cgtcacgcat gttccagccg gccatcatcc tgcttctcct 120
gctcattgtg accaccgatg tggcgcacatg ggcgagggaa tgcgagaagg acagcgagcg 180
attccttggg gcatgcatgg cgtcggacaa ctgcgccaac gtgtgccgcg gtgagggtt 240
ctccggcggc aggtgcagca cctccgccc acgtgcac tgcactaagc cgtgctaaat 300
taacctactc ccggcagttc gatggtggac gtttattcta tttattggct tacttgattt 360
ttttttcccc taacaataag aaaaacgcac gtg 393

<210> 22061
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-C3

<400> 22061

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gagggtcatt aaataaatct acttttctgt ttcagggtag gaaatgatgt ccgagagtga 120
agagcatggc tcgctcctag acaagatcaa cgacaagatc aacgagaaga tccatgagta 180
taagcactcg tcgtcgtgct cctcctcttc ggactcagac tatgacaaga agcccaagaa 240
gtctaagaag aagaagcttt ttggaagata acatccattg catcatgtcc tctgaggagg 300
ca 302

<210> 22062
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-034-Q1-K1-C4

<400> 22062

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cggctgtctc gtgtacgagt acatggacca cggcagcctc gaggaccggc tgttccgtcg 120
ggcgggcacg ccgcccgtcg cgtgggcca gcggttccgg atcggggcg agatcgcgac 180
ggcgctgctg ttctgcacc aaacgaagcc ggagccgctg gtgcaccggg acctgaagcc 240

ggatcaacatc ctgctggacc gcaactacgt gagcaagatc agcgacgtcg ggctggcacg 300
cctgggtgccg ncgtcngtgg cggacaacgt gacgcagt 338

<210> 22063
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-C5

<400> 22063

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tgcattcttc ctcaaaaact cggaaccctt tttccacaaa atttcaagga agttgtgaag 120
acaattcttta agcgactttt ccgtgtttat gtcattatct accactcaca ttttcaaaag 180
attgtcagcc ttaaggagga agcacatctt aacacttgct tcaagcattt tacattgttc 240
acttgggaat tcacgttgat tgacaaggct gagcttgcaa cacttattga tctaattgaa 300
ttcattgtgt cagtttgttg gcatgacatc aatgatt 337

<210> 22064
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-C6

<400> 22064

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tcctctccaa cacgaagatg gcgttcatca gcaatgtcgc agtgaaggcg gcggccgtgg 120
ccgcgtgct gctggtcgca gcggtgtcgc ctgccgcgcg cgcggcggcg gtggcggtgg 180
cgggaggggc gccgtcggcg ccggcgggtc cgctggacat cgcgcagctg ggcgccaagg 240
gcgacggcaa gtcggacagc accccgatga tccttaatgc gtggaagaac gcgtgcgaag 300
cgacgggggt acagaagatc gtcattccgc cgggcaacta cct 343

<210> 22065
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-C7

<400> 22065

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aggcgccgca accgccacat cagccatggg cgctcgcgca accaagccca agacgcttga 120
gggggcaggc cccagctgag gccgtcgggtt tcacacccaa ggttgcgccc gatgccactt 180
caatctccgt tgaagggtgcg 200

<210> 22066

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-B12

<400> 22066

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gtctcgttgc agggtcaggt ggcggagctt caaaagcgtg tcagtgattg gagcgatcct 180
gagaaagttg acaatatcga caatataaga gcaatggagc aatctctcaa agaaactatt 240
aatcatatcc aaatccataa ggggaacttc ggaaagcaac atctaatacg gctacagtat 300
gctgctaccc agttccagac cgacatgcag ttgcctctag gactgcccg gtagtcaggc 360
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<210> 22067

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-H8

<400> 22067

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tccaactgtc caacacacat atactaagat ggatacgtgg atatccaaac aagttaggtg 120
tctagtgtct aggtttttgt ttgtggtaat ctgcaatata actttgagat cctttgtgtg 180

<210> 22068
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-H9

<400> 22068

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 agtcgtaatg tttaggagca gtgggtgggg ttttttatat tttgatgtct tttatggaca 360
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<210> 22069
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-A1

<400> 22069

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 tgggtccttc gacatcacca agttgggagc ctccggcaat ggcaagacgg atagcacgaa 180
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 gaccattcaa gtgaatggca atctgctggc gaccacggac ctaagccagt acaaggatca 360
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<210> 22070
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-A10

<400> 22070

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tcaggcaaca cttggttctc tcatgaccca acggtcaaca ttcggtggca tctactacaaa 180
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gaagaaatcc atggatacca tcattctttc gctcgttgca tctgtctgca cgtttctcat 300
cttcatctac tggctgtcga agtaggttta ccagagcaaa gatattacag tgttgtaagc 360
ttgggaccac accaccagta ccggtacaga tagtcttcat tgggtgttgt acaatattat 420
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<210> 22071

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-A11

<400> 22071

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agcactacac tacactacat tagagagagg tcgagcggcc ctccctccgat ccgccggccc 180
gccgagagct agctgctgat cggctgagga gagtcatggc gacgtcgacg atgcgcgttg 240
ccgccggcgt gctgctggtc gtgtcggcgc tggcgacctt ggcccggggc gaggaccct 300
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<210> 22072

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-A12

<400> 22072

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ggaagaagcg gttgatgaac ctgttaaacc ggcggaagct gtggacgaag ctgggctgaa 180
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tgaggctgct gtcgtcgggtg aaacgacgac tgaaccgaag gaggctgagg atgaagccaa 300
gataataaag caagtcgact gcgaaactgc atcaaaagaa gttgctagta ctggggccga 360
gtcaagggac gatgccgcta ctatggaacg cgagccgctg gtagcagcag cagcagcacc 420
acaagaagag 430

<210> 22073

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-A2

<400> 22073

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gctcggatct ctaaaacccg agtgtgacag aagtggatc agaggaatgt tgactgtagg 180
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gcggaatgca cccgccctaa atcctaagat gaggagatgc ctaaactgtt tgctgttag 300
gtggaacga gaagaacaca agaacacaca aggatttaga gtgggtcggg ccgccggagc 360
ataatacact actccactat gtgatgt 387

<210> 22074

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-034-Q1-K1-A3

<400> 22074

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gggcgaaccc gaagccgacg ctggtgacga agcgtgccgc catgagcgcg gcgaagctgg 120
tgccgagcga catggcgagc gcgccggcca tgaggaaggc gttggcgagc acgatggtgc 180

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 tgaacagctc cgcgtcgctc atcagcgtca ggtctgcagg gcacgtatat ggatcggtcg 360
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<210> 22075
 <211> 268
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-034-Q1-K1-A4
 <400> 22075

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 ccgttcgggc gcctccacat gaccgccgct tcttggggct taaggaattc cggcttgagg 180
 tccaagaccc tgtccaaccc tatTTTgaac cggacattaa ggaagcgctt gggaagggtg 240
 ctatggaggt ggtcgacgcc cgcattca 268

<210> 22076
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 22076

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 ggtggaggtg gacgcgttcc tcgcgggtca ggacgaggac gcggcgccgg tgagcatcac 240
 ggagacgacg ctggagaggt tcgctnogn cgtcgagctg ctggtcgcca ggtacgaagg 300
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 aacgcgca 368

<210> 22077
 <211> 394
 <212> DNA
 <213> Zea mays
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 <223> Clone ID: LIB3066-034-Q1-K1-A6
 <400> 22077
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 cagaccccct gtatgtcgcg tatcacgacg aggagtgggg agtgcccgtg cacgacgacg 180
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 tcctcaagaa aagacacgtg tacagggagg cgcttctccg cttcaacgtg gatgcggctg 300
 ccaagtacac cgagaagcag atggcgctgc tgagcgccga ctacgggctg gaattgggca 360
 ccgtcagagg aaccggcaac aacgcctggc ggat 394

<210> 22078
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-034-Q1-K1-A8
 <400> 22078
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<210> 22079
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3066-034-Q1-K1-A9

<400> 22079

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gcctgctggg gatggacaag acgaccgagc ccatagtcaa ggccatgtcg gacaagacta 180
ccgacttcgt ccccatcttc gccaaaggcca tggagaagct cagcgccctc aaggttctca 240
cggggaagga cggcgagatc aggaagacgt gtcctgagtt caacaaccg cagaacacca 300
gcggcagcac gtcggtgata cggatcagct ccatcgacgc cgaccagatg gccggnctgt 360
cgcagccagg gtcgacgtcc aggaaagt 388

<210> 22080

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-B1

<400> 22080

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gcaccccgac atcggcatct cgtccaaggc catgtccatc atgaactcct tcatcaacga 360
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<210> 22081

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-B10

<400> 22081

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 gcgcctgcgt ctgccgctgc tggagggccg ccgtcaagat tgtgcgctg ccggaggctt 300
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<210> 22082

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-034-Q1-K1-B11

<400> 22082

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 gaatatcaag atggaggact cagccaaccc catcttcacg gacatgaagt actgccccaa 180
 caagttgtgt actgccaacg gcgcctccaa ggtcaccgtc aaggatgtca ccttcaagaa 240
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 atgcaccggc gtcaccatgg atgacgtcaa cgtcgagtat agcggcacca acaaccagac 360
 catggctata tgcacgaac 379

<210> 22083

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-H7

<400> 22083

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<210> 22084

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-K1-G12

<400> 22084

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agcggcgcat ggtgcggtcc tnccaaagtc ccccctggca agaacatcac ggccacctat  180
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ggcgcgtgcg gcaacatccc catcttcaaa gatggctctg gttgtgggtc ctgcttcgag  360
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<210> 22085

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G2

<400> 22085

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taggctgcag cggcagtggc ctagcgcctt caatgccggc acctgcgaga aactactact  120
cgtaccacc taccgttaca ccgactatcg acgttcacca tgactagcta gacctcacgc  180
acgcactacc catgcaagac tgctacaccg acacctactg tcaatggaca ctcgattact  240
cgacgtttat tctgacata tccagactca tcatcatcac tgcgccgttc gtcgacgcta  300
ccctcatct                                     309

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<210> 22086

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G3

<400> 22086

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 gaccatccag gtggatggca atctgctggc gaccacggac ctaagccagt acaaggacca 360
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<210> 22087

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G4

<400> 22087

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 agtgggtggc aaagttcatc tgggttacct ctttgggaagc ggtgagcccc ccaaaccagc 240
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 acctgctgca aagcctgatg gtaccagtca gatagctgct ggagttacca gccattccaa 360
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<210> 22088

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G5

<400> 22088

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gaactgccgc tgccgtgtcg ggtggcactc ctgtgcggcc gatatggcag atgaggggtgc 300
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<210> 22089

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G6

<400> 22089

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<210> 22090

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G7

<400> 22090

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 tgggtccttc gacatcacca agctgggctg cttcggcaat ggcaagacag actgcacgaa 180
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 acccaagggg gacttccttg tcggacaact 270

<210> 22091
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-G8

 <400> 22091

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 catccgggat caccatcacc aacaccgtca ttggcgctcg cgacgactgc atctccatcg 180
 gccccgggac ctccaagggtg aacatcacccg gcgtgacctg cggccctggc cacggcatca 240
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<210> 22092
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-K1-G9

 <400> 22092

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<210> 22093
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-H1

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<210> 22094
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-H10
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 taatgtggcc caatttttgt tccatgttat ttgtgcaggt tgtaagtagt tggggtgatg 360
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<210> 22095
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-H12
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 acggatggca tccacatggg cgactcatcc gggatcacga tcaccaaacac cgtcattggc 240

gtcgggtgacg actgcatctt catcggcccc gggacctcca aggtgaacat caccggcgtg 300
acctgcggac ctggccacgg catcagcatc ggcagcctag ggcggtacaa ggacgagaag 360
gacgtcacgg acatcaacgt caaggattgc actcttaag 399

<210> 22096
<211> 297
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-H2
<400> 22096

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tcatcgacgc tgactacaag gtcgacatcc tcagcgcgat caacgcgccg accgaggtgg 120
cgctacatgt cttcgcgagc tctgatggtc aagatgggcg ccctcgaggt caaaaccgga 180
tacgaggcga gatcaggaaa cgctgcgccc tcgacaacag gcactaagcc gccgaatgca 240
tgcgcgagat ggctgcattg ctcggaggaa atccttgtga gacacacaac atgctct 297

<210> 22097
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-H3
<400> 22097

aacgaaatcc agcagaccga cgcgaaccga gaaaaatccc acgaaatctc gtggccgcgg 60
cgaccggaag aagaggacga cgacggacgg agcggcgatg gcgtgccgcg cacttgccct 120
ccgtccctg ctctccccg acccgctaca ccgcctcccg gccgcggcgc cacctgtttg 180
gagagcgtcc cgcggtggcc gccgtccgca cctccgctgc tgctccggcg gcgggggcgg 240
ggagcccggg cageccgcgc aagaagctgt gctcgaggcc atatccaaga tagcaaggtc 300
taaaggaagg gttgcactca caacaaatat ggcatgggt ggtactgtga ctgacgatgc 360
angtgatgaa tggcttggtc tggatcagaa ggtaaattcc taccacacag atagaggatt 420
tacagcaatt ggcactggag gtgatga 447

<210> 22098
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-H4

<400> 22098

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cccacgcgtc cgatcacagg ctacccagtg gatgggggtg ctgctccagc agatccctga 60
atgggagaaa ctagctaaag gcatttcaca catgcaattg tgatactgac tgtgaaactt 120
acgcaccttc actatatgtg ttagcacctt ctagacgaat ctgtcctgag aatgaatcca 180
ctaatacatgg attaaagaca aggaccatct gcctgtttta cgatcacggt ggtcctaaat 240
attgatatgc caccattctg ttgtatgttg atgatgcctt attaacttac ctacgaagct 300
tcgttttagac gattttgcac ctgatctaca tatgctgctg cgtttctggt actgatcgca 360
ttgttttcat aactttgc 378
```

<210> 22099
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-H5

<400> 22099

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cactctggac cgccagcgcc tgcggctcca tcggctactt ccactaccgc cacctcttct 120
agcgtggcat ggtccacctc aagaacgagg agcagctcac ggacgggtac ctagacacca 180
tcgtcgactg gatcccgggc gcgccaagg acctgcggat cgaggactta ccgagctacg 240
tgcgaccac ggatccgaac gacgtcatgc tcgacttctt catacacgag acggtgggca 300
tgtcgcaagc gtcggcagag gtcataca cgcgcgacca gtcgcacgcg acgctgctcg 360
ctgccatggt gaatctctg ccgacgatct acaccgtgag cccgatccag ctgacagtgc 420
agaacaacgt gcagg 435
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<210> 22100
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-G11

<400> 22100

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tttccgacat tcacaggggg gacaggaaat cagcggccat ggctcgtatt tcggcgacga 120
ccttcggcgt catcttatcc gtcctgttct gtgccgcggc tggcaccgtc gtgcacaacg 180
accttccccg ctacgtcatc taagggcgcg tctactgca cacctgccgc gccgggttcg 240
tgaccaatgt caccgagtac atcgcggggc ccaaggtgag gctggagtgc aagcacttcg 300
gcaccggcaa gctcgagcgc tacatcgacg gggtgaccga cgcgaacggc acgtacacga 360
tcgagctcaa tgaca 375

<210> 22101

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-H6

<400> 22101

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tgatcagcga cgctaactac acggccgaca tcctcagcgc gatcaacgcg ccgaccgagg 120
tggccttaca ggtcttcctg agtccatgg tcaatatggg cgccatcgag gtcaaaaaccg 180
actaccgagg cgataccagg aaacactgct cctcgcacaa caggcactaa gccgccgaat 240
tcatgcgcga catggctcca ttgctcgcat acaatccttg tgagacacac aacatgctct 300
gcatctgca 309

<210> 22102

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-K1-E6

<400> 22102

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ccctctccaa atcatgctag ccgaaacgcc cctcctcaaa tctgagcatc aaatcgactc 120
ctcatcttcc tgaaccatc cactcctccc taaatcctct cagatcaa at gcccttctc 180
aaatatggag ggctggagga cgagtgaatc gaaagaagag gccgaggggg tgattgggat 240
ttttcttctt attttgccaa atacaaatca gctacttgct aaacgatatt tgctctggat 300
aatctaaagt aacgacgagc aaatataaga tcggtggatc tcagaaaaag gaaataattg 360
atgagaagga tcttccacaa caaacanaaa atcaaaaggg tccaatctca agggaaatgt 420
anaaaacgat gaatga 436

<210> 22103
<211> 431
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-E8
<400> 22103

gtaagaagtc gtctaattcg attggatcga attagacgcc ttcttcgtcc ctcgcttgat 60
tagcacgcta accagcttgt aatctgcagg atctaagcaa agacttgatt cagttatgga 120
cggattggta ggctcttga aagttcgtgt ggtccggggg atcaaccttg cctaccgcga 180
cgcaagaggc agcgatccgt atgtcgtcct acggcttggc aagaagaaac tgaagacaag 240
cgtgaagaag agatccgtga accccatatg gcaagaggag ctaactctga ccgtcacaga 300
tcccagccaa ccactgaagc tggaggtgtt cgacaaggac accttcagca gagacgaccc 360
catgggagac gcggaagtgg acgtggcgcc actgatggan gcggtgagca tgaacccgcg 420
ggaagagagt c 431

<210> 22104
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-E9
<400> 22104

gttcttcttc cctcaatcca ttgcaagcaa caggaggaga aaaaacaagg agcgagacct 60
cgcagctgac gcgcacaagg caaaacccaa tcggagccgt ggaccgggcc ggagataggg 120

ctcgaggcca tggcaagcgg aggcgagggc gcagggagcg gcgagtcccc acccgctgcc 180
 tcagtggagg cggcagcggg ggaggcgacg ctgcacatcc ggtgcgcgaa cggctctaag 240
 ttcacggtgc agacggacct gggcgccacg gtgggcgggt tcaaggaggt cgtagccggg 300
 agctgcgacg tgccggcgcc gcagcagcgt ctgatctaca aaggccgcat cctcaaggac 360
 gagcaaacc tagaaagcta cggcgttgag acagatcaca caat 404

<210> 22105

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-F1

<400> 22105

ccacgcgtcc gcgtcgccgg agacacctcg ggatccgtac atgaagtacg tctcgccgga 60
 ggttgctgag acacctccgt cgggggaagg ggtggcggtg agggacaagg ggaagaagaa 120
 agccgtgaag ctcaggatta aggttggtgaa tcatcacctc aagaggctga tcagtggagc 180
 actcgcaggc acagtgtcaa gaactgctgt tgcacctttg gagacgatca gaacgcattt 240
 gatggttggg agtaatggga attcgtcgac ggaggtgttc cagtctatca tgaagcatga 300
 gggatggact gggttgttcc gtggtaactt tgttaatgtc atccgggtag cccaagcaa 360
 ggcaatcgag ctttttgctt tcgata 386

<210> 22106

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-F10

<400> 22106

cggacgcgtg ggcggacgcg tgggtttggc cgtccccac aaggccactc acccaaaaaa 60
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 tctcgcccc gcgcctgtc caccgcgacg gcacatcccc cctcctcagc atccgcac 180
 ggcgggtcct cctcgccggc cccaacaacg cgaccctcg tcggctcctg gccccgcgc 240
 cgcgcgcctt caacaacaac gacaacagcg gggccgtgga ggcgcccgc cgctcgtgg 300

ccgcgggtcgc ctacctatac ccgttcctcg acggcgcgca ccacggggcgc ttactttctca 360
 cgcagttccc cttcttcggc gcgct 385

<210> 22107
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-F11
 <400> 22107

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 ttgaccaagc acacctacct gaaagggcgc ttcgacgtga tcacctccgt cgccatcccc 180
 cttgcactcg ctgcctccag catgttcatg attgggcgtg gagtttacia catgtctcat 240
 ggggttggga agaaagagtg atcttccact ggtaactat tgtttctgct tggcatggaa 300
 gtcataccgt cgagactgcg aagtcctctt cgcttgcaaa ataatacggc caaataacaa 360
 ttcgactaca ttttcgcata aaatttctgt ttgtatttgt ggggtgtgaag tggcagtaac 420
 ttgaaaatca gcactgtcac tgttttggtt a 451

<210> 22108
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-F12
 <400> 22108

accacgcgtc cggcgatttg aaataattgg gaataaatag ttcgtgaatc cctgaagcgt 60
 gcatatatat attcctgcc aataaaggc aatggagtcg tcacgcaggc tccagccggc 120
 cgtcatcctg cttctcctgc tcattgtgtc caccgatatg gcacaggcaa gggaatgcga 180
 gaagtacagt gagcgatttg ttggggcatg catgatcgca gacaactgcg ccaatgtgtg 240
 ccgcggtgag ggcttcttgg ccggcaggcg cagcaccttc cgacgccgct gcatctgcac 300
 taggcagtgc taaacaagat cgctcgatcg ctcgccatgc atcgacaacc tattcttaac 360
 aacgttcatt atctcgttct tatttatgac gaatgtcatg tatgttctgg tgactgtcat 420

gtatattctg aagactgtca t

441

<210> 22109

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-F2

<400> 22109

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tccctctgca tatatacaac cgtgtttcaa acttttcctc ttcaggcttt ttgaaccag 120
aggcaaaacc accctccaaa ggtataatgc aaggcttgaa gtatgacaag aatttgctcag 180
attcgtaacc ttggagttcc ctatgttgaa ttgcacgacc cccaaggatg gcatcaagtt 240
caactgtctt gatggctgca gtcccagctt catcttgact cgaatctttc ccaatccaga 300
agtggatata gcatagatag gcaccacctt tagtacaggt cgtctgcaga actatgtatg 360
aatctacaca gtagaattta ccataatcag attttggcaa tgcaactggc ttaaaatctt 420
caatccgcca tatttc 436

<210> 22110

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-K1-F3

<400> 22110

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cggcaccgct tgactcgtcc tcttttagga gtgagagtgg gggcacggct gctgcaaata 120
cctgggcttc tcaagagata gtcattgatg gagcaagcgt cggagaaaacc tccttcaggg 180
acacgaaaag cgaggcaggc gtcgacgtcg gcgggggcga ctccccaccg tccccgcca 240
cccgccggtc gagacggcac cgctctcggg gctccggcaa ctcatccatg gacgccaccg 300
gcggcgaggg cgaggagaag actaaggaga agagcangaa aggcacccga naagaaccgc 360
angaagcang acaagtcggc cggcgacgac gccctcggca catg 404

<210> 22111
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-K1-F4

 <400> 22111

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cccacgcgtc cgcccacgcy tccgcggacg cgtgggcctg tcccacctgc cgcgggtgta   60
cgagctggac ggcttcgagt actgctacag gtggaccttc gccggcgacg gcgtaggacct  120
gacgcacaac gtgacggtgc ccaggttgac ggtggagatg gccggtggcg cgaggctaga  180
gccggaagcc aagagcgtgg tgatgccgga ggtagtgccc ggggtggcgt gcctggcctt  240
taggaagctg ccgcggggag ggcttgggat cttgggcaac gtgctcatgc aggagtacat  300
ctgggagatc gaccacggaa aggggaagat gaggttcagg aaggacaagt gcaacaccca  360
tcatcttcac aacagcaaag gcggaaaggt ctataataat aataatggca aattctnctc  420
tactgtggtg catcgctca attaattcgt t                                     451
  
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<210> 22112
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-F5

 <400> 22112

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cgtacgcgta cgcgtgacgt gtcggaacac ctacctggat gacggattac cggtcggggc   60
cgcttgactc gtctctctttt aagagtgaga gtggggggcac ggctgctgca aatccctggg  120
cttctcaaga gatagtcatg gatggagcaa gcgtcagaga aacctccttc agggacacga  180
aaagccaggc aggcgtacac gtcagcggcc gcgactcccc accgtacccc gtcacccgcc  240
tgtcgagact gcaccgttct cgggggtccg gcaactcatc catggacgcc                290
  
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<210> 22113
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-F7

<400> 22113

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cctgggcttc tcaagagata gtcattgatg gagcaagcgt cggagaaacc tccttcaggg 180

acacgaaaag cgaggcaggc gtcgacgtcg gcgggggcga ctccccaccg tcccccgcca 240

cccgccggtc gagacggcac cgctctcggg gctccggcaa ctcatccatg gacgccaccg 300

gcgggcgaggg cgaggagaag actaaggaga agagcaagaa gggcacccccg 350

<210> 22114

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-F8

<400> 22114

cgacgaggct cggactcgaa tttggggcgg aacagcgcaa atctggtagg cacatgagga 60

tgatgcggaa gaggcgtaac gagagcatat gctgtgcttc aagaaagggc ttgactcgac 120

ctgcgaatgt gattctggag gaagtggctg tggatgccga ggcaaattggg gatgctgcaa 180

gagggatgga agacttcggt gcttttagtga aatgactc 218

<210> 22115

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-F9

<400> 22115

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gcgttcattg agccgtacgt cagcaagaac cctaggcagg cgtacgcca ctacagggac 120

ctcgaccttg gcgtcaacga ggtggtcggc gacgtctcca cctacgacag cggcagggtc 180

tggggcgaga agtactacaa tggcaacttc gagaggctcg ccaggaccaa ggccaaggtg 240

gacccttgcg actacttcag gaacgagcag agcatcccg cattgctcaa gtgatcgatg 300

ataccggtc ccatccagat cctttcgacc gcgccaagca aaaggacgac gagtcgtaca 360

tgattctgct gattatatta attagatgga tccttgcttg catgcgttga agccagtgt 420
 ttgcatggcg 430

<210> 22116
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-G1
 <400> 22116

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 gtccccacct accgttccac cgacttcgac gttcaccggt actggctcgc cctcacgcac 180
 gcgctccccg tgcggcagtg gtacaccgac acctgctctc agtggacgct cgattaccgc 240
 cccttcttcg cttacttctc ccgcctcctc tccttccttg cgcgctcgt cgacgctacc 300
 ctcatctcaa tccccgtgog tgacgcgacg cccttcgctc atctcatcta 350

<210> 22117
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-K1-E5
 <400> 22117

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 acaacgggga ggtgtccggg gtcacgctgc tcaactccaa gttcttccac atgaacatgt 120
 accggtgcaa ggacatgctg atcaaggacg tgaccgtgac ggcgcccggg gacagcccca 180
 acacggatgg catccacatg ggcgactcat ccgggatcac gatcaccaac accgtcattg 240
 gcgtcgggtga cgactgcate tncatcggcc ccg 273

<210> 22118
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D1

<400> 22118

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tttttttctt tctttatcaa caacgttaaa cccacacctt caatataatg accccttaca 120
aaaactaccc catttcaatg actgcaaatt cttttgctta tactactaag gtaaattccac 180
ggatatacct gaattctcaa acaatcctat cactttgaac atacatacct taactaccaa 240
cctataaaat cctaccactt cgacttcaac aacaa 275

<210> 22119

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D10

<400> 22119

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gctctatgtc atgaatcagt ctaaatagtg agctgctcac tggccgacct actgaacaat 120
acaatatgac gactgataca gaatgaacat tggcgtgctt gcacacttag ctacgatcca 180
gttcactcag cgtgctccct gaaccactag actctgatta tgtgctatag actatgtaca 240
tcatactgac agtacgctag ctgcatacag tgctgaccac tgtatatgac tacagcgcat 300
attc 304

<210> 22120

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-K1-D11

<400> 22120

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gcgacgcgag acggctaggc gagggccct ccaatccaag aacgggaaac ccgtgtcgcc 180
tgttggtacg cgggcagaag atcgggttcg ccatttccaa gcttggtgcc tcgccgctg 240

gggtctctcgt ctcggtctcc gaagccgccc gcgctggtct attagggtaa tttggttcag 300
tctattcgga tttatgaaat ntcggggtct gaaaaatgag aaccgaaatt tccaaaaata 360
ttttaggaac cgaaccccca taaactcaca attttggttc g 401

<210> 22121
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-D12
<400> 22121

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gcatatatat attcctgcc aagataaagg aatggagtcg tcacgcaggt tccagccggc 120
cgtcatectg cttctcctgc tcattgtgtc caccgatatg gcacaggcaa ggggaatgcga 180
gaagtacagt gagcgatttg ttggggcatg catgatcgca gacaactgcg ccaatgtgtg 240
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taggcagtgc taaacaagat cgctcgatcg ctgcgccatgc atcgacaacc tattcttaat 360
aacgttcatt atctcgttct tatttatgac gaatgtcatg tatgttcttg tgactgtcat 420
gtatattctg aagactgtca tgtatc 446

<210> 22122
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-D2
<400> 22122

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cccccgctcc ctgcggcgcg cggcggagcc cgagcctgag tccctgcccc ccgggctagg 120
ttggtctccg cctccgccct ccagtctctt tggcacaacc tgcagccgct ggccgaggtg 180
gacatggatc tgccaagcct cgcgcgtcgt ctgcgcgccg cgctcagtca cgttctctgag 240
gagcgcaaag ctgcagagga gagtctcaac cagttccagt tcacaccaca gcatttggtg 300
agattgttac agatcattgt cgatggaagt tgtgatatgg ctgtaagaca ggttgcaagc 360

attcatttc

369

<210> 22123
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-D3

<400> 22123

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atgtggagga agaagcaaga tgaaggagct ctcccgtat ctcttgccct aagccctaag 180
catgggcatt ggccgtcgtc gctgccgccc aagcagacga ccccgctgag cccacgcag 240
atgacgcgag agcacgaccc gtgcgcccc taccgcctgc accacataaa cagaggaag 300
agccccgtcg tcatcccggc tagctgcatg gccatgccga cggcctncaa cagcagcatg 360
ccagcatggg gggagcaaac tcagggctca aggccgtgta tttatgctac gcataaaaag 420
gtttgctatg tttcattttg 440

<210> 22124
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D4

<400> 22124

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agtttagtgg atttgatag caatgctgga acaagtctgc ttctgatcca ctatgccaga 120
gggaggtcta cccagactat ggtcaatgag aaaatgggtat catgtcaagc agcacgtgtt 180
ctgctggcca agggatcaat gggcttggtta ctggttaagga ttaatgaata ggtgccatt 240
actattatat acttgaattg ctgttatt 268

<210> 22125
<211> 438
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D5

<400> 22125

cccacgcgtc cgagggccac ctggtacggt cagcccaacg gtgccggcgc tctgacaac 60

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ggcaacgtcc ccatcttcaa ggacggcaag ggctgtggct catgctacga ggtgagatgc 180

aaggaaaaac ctgagtgtctc gggcaatcct gtcacggtgt tcatcacaga catgaactac 240

gagcctatcg ctccctacca cttcgacttg agcggcaagg ccttcggctc cctggcaaag 300

cccggggtca acgacaagct tcgccactgc ggcatcatgg acgtcgagtt cagaagggtg 360

cgggtgcaagt accccgctgg gcagaagatc gtgttcaca tcgagaaggg ctgcaaccgc 420

aactacctgg ccgtgctg 438

<210> 22126

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D6

<400> 22126

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cggcaaaaca ccttcgccgg cgagagcatg gcgatggcgt accgtgtcct ggaggtcacc 120

ctggtgtcgg caaatgacct caagaaagtg tcgctcttct cccggactcg catctacgcc 180

gtggcttcca tctccggatt cgacctcgc atcccttccc acagcaccca agcagaccac 240

agcaacggct gcaacccctg ctggaacgcc gtggtacact tccccatccc ggctgccgct 300

gacacccgcg gcctcgcaact ccacgtg 327

<210> 22127

<211> 212

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-K1-D7

<400> 22127

ggcaagaacc ggaagcgtgg aaagaacgag gctgacgacg acaagcgcga gctcgtcttc 60
aaggaagacg ggcaggagta tgcgcaggtg acccggatgc tcggcaacgg gcggtgcgag 120
gccacctgcg tggacggcac gcgccgtctc tgccatatcc ggggcaagat gcacaagaag 180
gtgtggatcg cggcctntga catcgtactc gt 212

<210> 22128

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D8

<400> 22128

aaaaaaaaac aaacaacaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaacggaaag 60
gaaaaacaat gaaatagtga tcaccaatac ttactagtca tgaatccctg tgacaatagt 120
acatcat 127

<210> 22129

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-D9

<400> 22129

cccacgcgtc cgcccacgcg tgcgcccacg cgtccgagct taattgcgcc actgctcgtg 60
gtccgtgctc ttgcattgca ttgcaagtcg tagttgagca gcagcaacca ctgcacagga 120
tgtcgtggca gacgtacgtc gatgagcacc tcatgtgcga gatcgagggc caccacctga 180
gctctgccgc catagtcggg cagcagggcg ccgtttgggc ccagagcacc gcattcccac 240
agttcaagcc agatgagatg accaacatca ttaaggactt cgacgagcct gagtttctgg 300
ccccgatcgg cctcttccct ggacgcacca agtacatggc catccaaggc gagcccggcg 360
ctgtcatccg cgggaagaaa ggatctggag gcataactgt gaag 404

<210> 22130

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-E10

<400> 22130

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ctagaaagct agacaccgta cccatggctc gcgctagcgt cgtctttgtc attgccgctc 120
tcctcttcgt cgccatggctc gtagcaccga tggccgaggc aaagtccgcc gatgcccctg 180
tggctgacgc gccagccgat ggacctagcg ggccggctgc tgcacctggc cccaggggtg 240
tcgaaggcct gtcaggcaat gaggatgacg atgatgactc caccaattga ggccacacac 300
gtcggcccgg ttaaatttgg aacaagacat ggaagaaaaa tgagagcaat gtctctaaaa 360
ccatgataat gtgtgggtcat ccactcatnc atggatacat nctngctctc cctctttttc 420
tttc 424

<210> 22131
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-E11

<400> 22131

cggacgcgtg gccccgactc cgggtccttc gctgcgtcac ctactagcca gagcgccggg 60
tcagagaagg cccccgccgg tgcccccaac gactcgctcg ccagcccttc cgcgtccccg 120
tccgaagatg aagccactgc atcgcacgat agcagcagcg gccgtggcag tgccgactcg 180
gaagagccgt cgacggccga ggccggccgc gaatccgccg atagtccacc cgagccagcc 240
catgcttcgg agtcaccagc agagtctcct ggcccggccg ctgaccacga gagcggcagc 300
ccgagcatgg gcaccggtgt cgtactggcc atgctggccg acgatgtcac cgagacgctt 360
cctttctaga tgaccatggt ggctttgcgc taacatcata gtcaccgagc agcaattctt 420
ctggg 425

<210> 22132
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-E12

<400> 22132

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caccgttcct aaaactgcag agaacttccg agcactttgc acaggggaga aaggaattgc 120
caagtccggc aagcctctgt ggtacaaggg gtcgacgttc cacaggatca tcccgggggtt 180
catgatccag ggaggcgact tcaccaacgg caacggcacg gggggcgagt ccatctacgg 240
cagcaccatc ttctccgacg agaacttcaa gcacaccac gctaaagccg gtacgctgtc 300
catggctaac tacgggcccg actccaatgg ctcccagttc ttcatacca ccgtagacga 360
aaaccggttg cccaagaagc tggacgggcg ccacgtggtg ttcggcaagg tggt 414

<210> 22133

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-E2

<400> 22133

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gttaatgggt tctgtatggc tgtccacgaa tacttactag ccacgaatac ctgtgaaaac 120
agcaaaacaa aaaatgggca ccgttggcca ttatacatgg aaacttggtta atttcttagg 180
aatgtcacgt ggctcgatcg aggccaagcc atgtacgtac aagttgttca attatttatg 240
catgctgctg catgt 255

<210> 22134

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-C9

<400> 22134

agcaggagct acaattatctt ccaataaatg aagctactct taagccattt gagaagggtg 60
atttagtaga cagccctatt gccagactac ctgacataga gaccacaaca cttggagcca 120
catatgttgc tagcttagat gcaggagttt ggaccaagga acaagtatct gcaggtttagc 180

acaaggagaa cgcgacaatc ttctgcccac aactagatga ggtgcacaag aagagggctg 240
 attcatggta caagacggtt tcaagatcat tcgatttggc tgacctttct ctgtaaatgt 300
 gtcttgtcgg cattgatcta tctgtttttg gaagatgcaa atgaataaat tggctcttgc 360

<210> 22135
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-E3
 <400> 22135

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 acggatcgct ccacgcccgc ggaggacgag caacagcaga agcgcccgtc tctcttctcg 120
 ccgtaccaga tgccccgctt ccgcctcacc caccgggtgg tgctggcgcc gatgaccagg 180
 tgcagggcgc ccgacgcgat cccaggcccc gcgctcgcgg agtactacgc gcagcgggtcc 240
 acggagggcg gcttgctcat ctccgagggc accatcatct cgccgtccgg ccctgggttc 300
 cctcgtgtcc ctgggatata caatcaagaa cagactgatg catggagaaa ggtggttgat 360
 gctgttcatg ccaagggagc tatctttttc tgccaactat ggcatgt 407

<210> 22136
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-K1-E4
 <400> 22136

aaaaagtatg cctagctgcg actagagaaa tacacagtat actgtctntt gtgagagggg 60
 tcggtaata ttgtaaacag ggtatacgaa tcgcccgtgc ttaaaactca tcatttaatc 120
 aactactcat cgtcctgaaa ccattccactc ctccctaaat cctctcagat caaatgccta 180
 cttcttaaat atgaagcggc tcgaggacta gtcgaatcta aagaagacgc caaggagctg 240
 attacaatct ttattatta 259

<210> 22137
 <211> 393

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-B4

 <400> 22137

 cccacgcgtc cgccacgcg tccgcggacg cgtgggcgga cgcgtgggtc agcgggctgc 60
 aaagccgacg aggataaaga ggagcccggc tccgcacgcg ggagcgagag gatcgccggc 120
 gcaggatgtg gtgcgcatcg tgcttggcgt ccgcctgcgc gggctgcacc tgcaacctct 180
 gcacgtcggc ggcatcggcc gtgtcccgcc gatccgcgcg cctcgcttac tgcgggctct 240
 tcgccggcta cttatcctc tactttcttgc tccgtcagtt cgccgagccg ctccctcaagc 300
 atatcccatg attcactaaa tttctgcatg tgctgaaggc ttaagatgca gaacagtgat 360
 gtggagtgtc cttttgctcc acaaaatgaa atg 393

<210> 22138
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-B6

 <400> 22138

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 ataacatcat ggtcgtgggt gtcgtccttg cagcgcctcg cgccggatgc tcatgcgggc 120
 ccccgaaggt gccggccggt cccaacatca ccaccaacta caacggcaag tggtcaccg 180
 ccagggtcac ctggtacggt cagcccaacg gtgccggcgc tactgacaac ggcagtgcgt 240
 gcgggatcaa gaacgtgaac ctgacaccct acagcggcat gaccgcgtgt ggcaacgtcc 300
 acatgtataa cgaccgcaag ggttgccggt catgctatga ggcgagatgc aaggaaaaac 360
 ctgagtgtc ggtcaatcca gtcacggtgt acatcactga catgaactac ggcctatc 419

<210> 22139
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-B7

 <400> 22139

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gagagccttg ttcctcctgg tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa 120
gggcatcgat gcgaaagcgt ccgggcctgg tgggtccttc gacatcacca agttgggcgc 180
ctccggcaat ggcaagacag acagcacgaa ggctgtgcag gaggcattgg catcggcgtg 240
cggcggcact gggaagcaga caatcctcat acccaagggc gacttccttg tcggacaact 300
caacttcaca ggcccttgca agggcgacgt gaccatccag gtggatggca atctgctggc 360
gaccacggac ctaagccagt acaaggacca tggttaattgg atcgagattc tacgcgtgga 420
t 421

<210> 22140
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-B8
<400> 22140

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tccagatcca ggatggcgt cctccttgag accttgccct cccgagtgtc ctcggtgagc 120
tactttgttt cgatttatca ggaaatccgt ttgcttcatg ttgtgcaggc tcatatctga 180
ttgctggatt cggcaaacc gcgttgatc ctgtatcggg tagtccttgc ctgcaagggt 240
cttggttgta tgttttggtg gtcgagcatc gcatgttctg cttctggatc cagatctgga 300
gaaatcgga agtcgtcgtc gttcggttcg gagcggatct gatgcgacga tagatggagg 360
cggcgggatc tctcggctcg cagtcctgct ccacctcgat ggatgatgtc tctgcgctga 420
taaatatggg atcaatttcg at 442

<210> 22141
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-B9
<400> 22141

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ctctgctttg gtcgcgtctg cccggatcta gtcgggttcc aggaggtggg ggcgacgtgt 120
gtggggcggc gacccttcgc cggcgcggct cggcctcggc ggcatacctgg cggcagtgag 180
cgcggcggtt gatatgtcact tccgggctgt gcggttcctg gctgggtgtc cgcgcagcag 240
gggggcatgc ggccggccgt gggtcgcagg cgcgaagaag gtgctgtctg gcgccccagg 300
gcagggagcg gcgcgcgcg tggaggtctg gaatctggtg cgcgtggggg tcgcggcctc 360
cgcgtgccag cctttcgagg cgcagtagg ctggtcccgg gcatgttccg nggtggtgtt 420
tcgccgtgtg ccgtcgtg 438

<210> 22142
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-C1
<400> 22142

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ggggcggggg aaacaaaaca acgcgggcag cgcacggca agcgcgtgcc tgccacggcg 120
cggacacaga gagtggaaac cggaaggggg gaagagagat ggattcctac acctcggcgg 180
cggcggcagg ggaggcggcc gtgccgccgg aggacgacgt ctgctacgtc tgccacgacc 240
gcttgcggtat cccgtgccag gcagaactgc ttccataggc tctgtggaga gtgcatcatc 300
cgcgtttgga attatggacc tcctgtacag gcttgcaaga gtaccatttg tcgtcgcctt 360
ataaatctac tggcgcctgc tgcattatca aggcacgatg atgggccaca cgcctaacgt 420
attctaggag agattcagca ctataact 448

<210> 22143
<211> 309
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-C10
<400> 22143

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ggccagggca gctcgccttt tgccttcgct ttcatgcata ggagatgtag agaatcacca 120
 ccggaccggc ctgactctat accgtgtggc gctattggcc aactgatata gctcaagggt 180
 ggaatgtcct gtaagggctg agatagagct ctaaagactg tcctgagcaa tatgcaacgc 240
 gctgcgtcct acctcgtaaa cattatggaa tactacgtaa cggatgaatgg cattgtgata 300
 cactaagct 309

<210> 22144
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-C11

<400> 22144

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 agcggttttca gttcaggata agctctgggc aatttatgct gccggcaaca ctgtaccaat 180
 accatttctt aaggcaattg acatttcacc actagctcta gtatcagaaa atgaatcagg 240
 aaatggcctg gctgggtcaa gtacaaatga tgctttggag gcagttaggg agctgttcag 300
 tggatgatggg caggcaaaga aaggacggaa agggcaaac gaagtccctc ttcctccggg 360
 tgtgcatcac aggtgatga caagccccac attgatgaac ctggccaag ctctagctta 420
 tcacaaaacg tgc 433

<210> 22145
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-C12

<400> 22145

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 gatcgtcggc ctggtgtcta gctgcacgga accgcagcca tgcagacgat ctcgaccgta 180
 cgccgtgtgt agccggcccc ggccaccgcc cactgctgcc aactgcccag tgatgacgac 240

ccggccatgt ccgccgtacg cacggtcctg cctctcgatc gtacgcgctg agcaacagga 300
gtttctgtccg gcgctggagg tcggctccttg tcttggttag agctagcccg cccgccggtc 360
acacggatcg gatctctcca tccactccca gc 392

<210> 22146
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-C2
<400> 22146

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aattcattaa ggctatgttt ataccgtgta tcaatgggtca agaagggtcc attggaacaa 120
ttattattta tttcaagcta tttcggctct ttcttaatct tcaaaaagaa atgaattccg 180
taatggtaac acgaaaaaag aaaaaaaaag gaagtgtgga aaaaatgaca agaagatatt 240
ggaacatcaa tttgaaagag atgatagaag cgggagttca ttttgggtcat ggtattaaga 300
aatggaatcc caaaatggcc ccttacatct cggcaaagcg taaagggtact catattataa 360
atcttgctag aacagctcgt tttttatcag aagcttgtga ttttaagtttt tgatgcagca 420
ngtcaaggga aaaagc 436

<210> 22147
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-C3
<400> 22147

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cttgagtttg ctctacatgg gaacaaatga tatgcaaata ctgtttccat atgtactgc 120
acttaagaag ttagaccttc agtttacatt cctttccaca gaggatcatt gtcagatagt 180
tcaacgctgc tccaatctgg aaaccttaga ggtgagggat gtcatagggg atcgtggact 240
acaagttgtt gcacagacct gcaagaaatt gcataggctc agagtagaga gaggagatga 300
tgatcaagga ggtcttgagg atgaacaagg taggatttca caggtggggg tgatggctat 360

agcccaaggc tgccctgagt tgacatactg ggcgatacat gtatcagaca ttacaaatgc 420
agcttttagag gcagttggta cat 443

<210> 22148
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-C5

<400> 22148

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gtacgagaag ggggtggatta tcaagggtcaa gctcagcgat tcaggcgagc tcagttcgct 120
catggatggg gacaagtact cgaaattctg cgaggaagaa gacggtcatt gaagaaatca 180
gaggggtcttc tgaacaccaa ggacctgtgt ctcaagctct atcagtgcct tctgggtctgg 240
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attgccctat tccaccaggg ctttgggaat cccgacttgt gttgtgagtg gcgttgtcaa 360
agtttgatta tctcttttta gttgtaatct cgtgatttcc ttcttttttt aaaaaaaaaa 420
ttatcttttt g 431

<210> 22149
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-C6

<400> 22149

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ctcgcgaaaa taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc 120
ctcgcgctag tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg 180
gagagcggcg aggcggcgga ggcgaagaag atccaggacg acttctgctc gacgctgtgc 240
gagggcaaga aggggacgga cctggtcgtg tgcaaggagt cctgcgctct ctcccagcag 300
tccaacctgg tgctgtacgg caggatccag tgcaagggca agtgcaccga gcagaagggc 360
atcac 365

<210> 22150
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-C7

 <400> 22150

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 ttttacattc ctttccacag aggatcattg tcagatagtt caacgctgct ccaatctgga 120
 aaccttatag gtgaaggatg tcataaggga tcttggacta caagttgttg cacaaacctg 180
 caagaaattg catacgtca gagtagacag aggagatgat gatcatagag gtcttgagga 240
 tgaacaaggt atgatttcac acgtggagtt gatggctata gcccaaggct gtcctgagtt 300
 gacatactgc gcgatacatg tatc 324

<210> 22151
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-C8

 <400> 22151

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 cttttccgac attcacaggg gggacaggaa atcagcggcc atggcctcga ttccggcgac 120
 gaccttcgcc gtcatttat ccgtcctctt ctgtgccgcy gctggcaccg ccgtcgacaa 180
 cgacctcccc gactacgtca tccagggccg cgtctactgc gacacctgcc gcgccggggt 240
 cgtgaccaat gtcaccgagt acatcgcggg cgccaaggty aggctggagt gcaagcactt 300
 cggcaccggc aagctcgacc gctccatcga cggggtgacc ga 342

<210> 22152
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-H9

 <400> 22152

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 ccccaagaaa gcccggttcc tataggccag tgttctagta cggcgatatc aacccctcgt 120
 aacggcgggga aagagcccta gtcaccgcag cgaggaaagg accggatctc tctaccactt 180
 cgggagtagc gacgactcgg aagtacagga atgaagcgac gcctaaagga gccctcttca 240
 actctatctc ctcttcggag ctctgcaacg aggaagggga gaaacggtaa gccgtaagag 300
 ttaatggccc acttcccccg gtcgtcttca gctgcaacgc ccagggatag cggccggggc 360
 cccccacccc ccgacgctcc ccacggatac ccccgcgcac g 401

<210> 22153
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-A1
 <400> 22153

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 gctgcaggag cgcgactcgc accgggaccg caagactgac aaccaggcct agcgagtgtg 120
 accgatctga ccgcccgatc ggtctgaacc ctgacaacct gtacaagttc gatgcaacat 180
 ttgttcattc cttgtgtcga acatgtgggg aaaaaaaggg aaatatatat gagcattttt 240
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 att 303

<210> 22154
 <211> 272
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-K1-A10
 <400> 22154

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 gactaccctc ttctctcctc tctccttctc cctctctctc tccactgcga tgactaccag 120
 gtcattgctg aatgtccaac gacctcatgc cggcctatac atgcaaggct ggatccacag 180
 aactgcac caccgaatct agaactcttt catcaccact agattcatgt ttgaaaagct 240

cctgcctctg acgctagatc tcatcaccaa tg

272

<210> 22155

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A11

<400> 22155

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gcaggctcgca gccatggcga agaactaccc gaccgtgagc gccgagtaca gcgaggctgt 120

ggacaaggcc aggcgcaagc tccgagccct catcgccgag aagagctgcg ccccgctcat 180

gctccgcctc gcgtggcact ccgcggggac gttegacgtg tcgtcgagga ccggcggtcc 240

attcggcacg atgaaacatc atgctgaatt ggctcacggc gctaacgcgg tgctggacat 300

cgcggtgc 308

<210> 22156

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A3

<400> 22156

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catggatggt gacaagtact cgaaattctg cgaggaagaa gacggtcatt gaataaatca 180

gaggggtcttc tgaacaccaa ggacctgtgt ctcaagctct atcagtgtc tctgggtctgg 240

agacctgctg ctacaaattt aaattggcaa gggttcattgc atgggataaa ttagttagga 300

tttgccctat tgcaccactg cttgggaaat acgagcttgc gttgtgagtg gcgtgggtcaa 360

gtttgattat ctcttttttag ttgtgatctc gcgatatact tctt 404

<210> 22157

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A4

<400> 22157

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caagatgttt cttgattctg aaattcgcta acactagcat gttttatgtg tgtattgttg 120
ttatatgaaa agtgaagtat gatcatctcc agtgtccact acatgagtac aaaaaccat 180
ctggtgtttt tttcctgtac acacacaaac aaaaacacac acatgatgac gacgacgacg 240
ctacttgcaac tgcctgttgg ggaaggcctc tgacctgacg acccctgtct cgacgccatc 300
gacga 305

<210> 22158

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A5

<400> 22158

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gacgctggcg gctacaacaa ctggccggag gacaccgtct tcttccgcgg cgacaacggt 120
gggtggagca ccgagtacgg cgacttcttc ctgtcgtggt actcgcagat gctgctggag 180
cacggcgacc gcattcctgtc gggcgccacg tccgtgttcg gcgcggcgcc cgtggaggtc 240
tccgtgaagg tggccggcat ccactggcac tacggcagcc ggtcccacgc ccccgagctc 300
accgcgggct actacaacac gcggcgccac gacgggtacc tcaccatcgc gcgcctcctg 360
gcgcgccacg gcgcctgtct caacttcacc tgcgtggaaa tg 402

<210> 22159

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A6

<400> 22159

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cgtccggaac cgcgcgggcc ggcacgcacc caccgctgg cctgaccgc tccggcgcat 120

gcggcgagac ccctatatcg aatccactta tatacatata tcacgtgtac tacgacatcg 180
aacaataata atgaacagtt atcagacgta ccggcggacg attcacaagt gtacagaaaa 240
cgatcgactc cactccaact atacatatcc tactatggct gttgatacac cccgatggat 300
cacaaggcat gcatgcatgt acatgcacgc atgggtca 337

<210> 22160
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A7

<400> 22160

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acctgtaccc gttcgtccac ctccctcccg acgggactct gttcatcttc gccaacgacc 120
gtcccatcct gttcgacccc aggaacggcc aggtcggtccg cgagttccac gttctcccag 180
gcgggtggctg gaactaccct gctgcggca tgcgggcgct cctgcccctc gacctccgac 240
gcggcgacgt cctcagtcct gaggtcatcg actgcggcgg ctcccccaag aacgccttca 300
cgctcggcga gtccaacacg ttcccgcccg acctcaagga ctgctcgcgc atcaaccct 360
ttgagcccga cgcttggtgg gcgctggacc agatgcccg 400

<210> 22161
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-K1-A8

<400> 22161

cttttcttga agaaaagaaa tgcatgcctt ggttcgttca gtagccttac acagacattg 60
gaggatgttt cttgattctg aaattcgcta acactaccat gttttatgtg tgtattgttg 120
ttatatgaaa agtgaattat gatcatctca cagtgtccac tacatgagta caacaaacca 180
tttggtgttt ttttctgtc acaca 205

<210> 22162
<211> 393

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-B1

 <400> 22162

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 ggagtagaga gatggcggcg gacgaggatga actcgggtcta cgtcggcgga cttccctacg 120
 aggccaacga ggagatgctt cgcgacgcct tcgggtacta cggcaccatc gtctacgtca 180
 aggcgattaa tgatcatgct gtcaaaggca agtggttatgg ttttggtact ttcactcacc 240
 ccagagctgc tgagcaagca attgcgggca tggacggcaa gaaattaggc aaccgtattg 300
 ttcgagtaaa tgaagtgcgt acaagaggcc cccgcgattg tggccgagat ggtttcagac 360
 gagatccaag aaagtatggt cgagatccat act 393

<210> 22163
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-B10

 <400> 22163

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 gtcgcgctgg tctcgtggc cacggccata gccgccgctc ccggcggttg gtttgcgtc 120
 accggccgca tctactgcga caactgccgc gccgggttcg agacaaacgt gtcccacgcc 180
 atccaaggcg cgacgggtgga gatggagtgc cgccacttcg agtcgcagca ggtccacgac 240
 aaggcggagg cgacgacggg ccccggcggc tggtagagga tggagatcag cggcgaccac 300
 caagacgaga tctgcgacgt gcgcctgctc aagagccccg aggcggactg cgccgagatc 360
 gaccac 366

<210> 22164
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-K1-B11

 <400> 22164

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acagaacaaa cccatcaacc atggcgaact cggcgtcggg gatggccgtg agcgacgagt 120
gcaagctcaa gttccaggag ctcaagtcga agcgaagctt ccggttcac acgttcaaga 180
tcaacgagca gacgcagcag gtggtggtgg acaggctggg gcagccgggc gacacctacg 240
acgacttcac cggctccatg cccgagagcg agtgccgcta cgccgtcttc gacttcgact 300
tcaccaccga cgagaactgc cagaagagca agatcttggt catctcctgg tccccggaca 360
cctcgagggt caggagcaag atgctgtacg cgagc 395

<210> 22165
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-K1-B12
<400> 22165

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tccgccgtca tgctgtgctt ggagacttgg tacttccaga tcatcgtgct catcgccggc 120
ctgctcaaga acccgagct ctctctcgac tccctctcca tatgcatgaa cgtgaacgca 180
tgggtgttca tgatctccgt cgggttcaac gccgcggcga gcgtgcgggt cggaacgag 240
ctcggcgagg gcaaccgag ggcggcggcg ttctcgggtgc tcatggtgac gtcgctgtcg 300
ttcatcgagg cgacggtgtg tgccgtcgtc gtgctgtgcc ttcgcgacca gctgagctac 360
ttcttcaactg gcggcgaagc cgtggcgcg 390

<210> 22166
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-K1-B2
<400> 22166

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gccgcgtcag gagggttcgc gctgacatt ctcgcgtgct gcagcctcat catgctggcg 120

gcggcgctctg gcggcggcgg cgtggacgac gacggcgctcg gtggtgacag gctgatgatg 180
gaccggttcc tcagctggca ggcgacgtac aaccggtcgt acccgacggc ggaggagagg 240
cagcggcggt tccaggtgta ccgncgcaac attgagcaca tcgaggccac caaccgggcg 300
ggcaacctga cgtacacgct cggcgagaac cagttcgccg acctcacgga ggaggagtcc 360
ctggacctgt acaccatgaa ggggatgccg gtccgncgtg acgccggcaa gaaagcggcc 420
aacg 424

<210> 22167
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-E1-H7

<400> 22167
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gccactgtta aggctattga ttattatact cgggtggctgc tgctaattgtt ggacgtaggg 120
ataaggattc tgtttatact gaggtgtata cggagggtcc taataagaag ggtgggggatg 180
ctaagcggta tacttatgat gattgactgt cgtctgtacc gtagggcttc tccgtcgtat 240
tcattctgta gccgtcgatg aaagaagacc cgagtaaaac gcattcctagc gatcctaaga 300
cgaccgatac taacggacac gtacgtccct cgatgagaat cggtcattatt ggtgaagacg 360
gccccgagac tctcgccttg ctagaaaacg tagcggactc cgtagaagtt acttcaaaga 420
gactggaaag taaggcg 437

<210> 22168
<211> 293
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-033-Q1-E1-F8

<400> 22168
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cctccactag tgtaaaactct acagtatacg ggggggacgt caaacagggt caatggcagt 120
acatttcgcc tccccacaaa ggatactatc tgatccgtga acgcaacatc agagtaagcg 180

gtcccagacg ttaagataac acgcgagacg tctgaagagg catagaagaa cctggattcc 240
 caccctaaacg atctccgata tagctcaggg tgaagcccat ctctgttata gtc 293

<210> 22169
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-F9

<400> 22169

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 acggagtagg gtacgggggtg ccacggagtt gatgctagta agaatttcag taggtgcatt 120
 taatcatagg gttctgatcc ggtgcaatga ggggtgggtga tgctctatca tatgtggagg 180
 gctcgggggtg agagatcata aggtatccta gaggtctgta ggattaagta agcggatttc 240
 ggatcatcca gaatgagtag atacttgtac cgtcaaggat gacgactttg gtttactaga 300
 ctccctgatg tttagtaaaa gatgagagct gatacgaccg cgaccacaca acagacgact 360
 cgtccgctgt gcgagttggc gtccgtac 388

<210> 22170
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-G10

<400> 22170

tggaaccttt gggctgattt atgtgcttgt ctgctgctgc tctatctatt ttgttcctat 60
 gttcttttcta ttaaacaagg ctttggttgc ccttgatacc tatagggggg ataggaaact 120
 agtgggttacg gttctgacct tggatgatgat tcctgttgct actccacttg cttctcctcg 180
 cgttggtggtc ggtattgttg ctgataatga ttcttttgat catgctactt aggggttggtgc 240
 tcatcgatgat attcggttggt ttgggcctgc gattaacgct attgagcata ctgtgggtgt 300
 taaggcgagg tcggagcgta agtatcctgg tattggtaag tctgagtgtc ttactgatgg 360
 ggcgattgat gtgaatggta tgcataatgac tgagtct 397

<210> 22171

<211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-G11

 <400> 22171

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 ttgcccatac tgtggtcgat tatgtaggcc ccaatatact cgacacggat ttaatcacac 120
 accgcacctt caccaactcg atacctatca agtcaaccgc gccccctta aacaaaataa 180
 atataatacc ctctccaca aaatgtatac cccaatgttg cttgtctcag acgactcaag 240
 tccatgcatg tacgtacgtg atacaccatt atctccacac tgctattcaa acctaacata 300
 actgttgggt acacataata ccgcatcat caaaatttct ttccaattta atcca 355

<210> 22172
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-G12

 <400> 22172

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 tgccgggtaaa atacggtcgc gaacgcgagt gattacgcgg ctgccgacgt aggtataagc 120
 cgtgacggcc gcggtgccgc ttcctccggc gagtgggtgta cggcgtggct tctttaagc 180
 ttttttcggt aagaatacta tggttattca cggttaaggat cggccagatg tcaaagtaat 240
 acggcacggt aagttgatgg gcgttggctt tgatgataac ggcggtggtc gtgggcataa 300
 ggatgcgaat aagttttttc ctaacagtac ggggtgtgct ggtaatactt ttactcctaa 360
 ggacggctcg ggccgcgggc ttcgtcctga gactaagcgt gacaagtccg cggagcgtct 420
 tggttaagttt gcggcggcgt atactatg 448

<210> 22173
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-G2

<400> 22173

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tctaaccgat ctctgaccat ttatttcccc ctgtccatcc tctttgttct tctctttctt 180

tctgttttcc taatgatatc atttctactc taacttttgc gtacgatctg atctttcctt 240

tctactctac tcattct 257

<210> 22174

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-G3

<400> 22174

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gctaaagggg actgacgtga aagtgccttg gttcggcggg cttcctgata ctattaagcc 120

gggtgttctt ggtaacggta agatagatag tatgaaggtc gcgtaggagg tacgggtact 180

ggtacgtggg ggtatcggga agtagataac ttctacattt aagggcgatc cttccgctgg 240

ataatcta at cctatagggt tccgtaaggg tgatgcgatt acttaggcgg acggtaaactc 300

gtcgggtgatt atggattcaa gttagcataa ggattacggc aaccggactg agacctcatg 360

tgcggaacaat tcggcta 377

<210> 22175

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-E1-G5

<400> 22175

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tctcgtacac ttgcgctctc tcggaaggag agagtctcat ngtgttgatg gtagtagttg 120

gctggcgtag cgctgtgctg cttacgaggg cgttggtgcg gagagcggcg atcgtgagcg 180

tgggaatccg ggaagtgatg ttgatgtgtc gggggcagag tagaaggtgg tgggtcttgg 240

ggttacggat gcgaaaattg gcggagcgga gggaatcggt gtcggtgcgc tgggcggtat 300
 cttcgcgtgg ttgacacggt agaggagggc gtcgacgggt gctaagcggt agtcggtgtg 360
 gcctagtggg acggcatctc atgatgagag tgggtgggtg gcgcgtatcg gtgcctggga 420
 tagagtctgc gattaggaga aatacgt 447

<210> 22176
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-G6
 <400> 22176

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 gccgtctcct cctacttcgt caacttaaat ggagatcgat attcttccgt taccgtcaat 120
 gtattactag aagtcgctaa taaataaaaa tactactact cgatgaccag tagttaaag 180
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 tcgtctagcg ggtgacttag gggagaaggg tatgaatttg tgggtgttaa atacgggttg 300
 tacgagtgtg ctgctgaatc cgtgttagca gcagcgatt gcgcgggccc gtccgtccag 360
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<210> 22177
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-G7
 <400> 22177

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 gatcgttacg gcggtcagcc tgccgcgtat gtaggcttag aaaacatagg ccacgactgc 120
 ataaaatcca ctactactcc tcttgactta ctaataactg ttgagagtga ctgagagaca 180
 aacaaagacg aagaaagcgg tactactgct agttgcctct cctgcgtcag tttcgatgtc 240
 agcccgcgtt ttgtcgacag tagaggtaaa gaagaagaga gctgttggtg ttgttggtga 300

ggagaagaag gcgtaggata atcctcgtct gatgtcgcgt gagggtagga aggggacgga 360
 ttccggcggcg cgtaaggagc ttcgtgattc tctatagtgt cttaattcgg cgtcgcattg 420
 ttggacttag cgtaagggta agcgtattga gta 453

<210> 22178
 <211> 477
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-G8
 <400> 22178

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 aatacgcat ggcgtaagga tacgtcgact ggggatgcga ttgcgatggt gtttggggat 120
 agttttaata tggacgggtac ttatacgggt gatctacttg ggactattac tattaatatt 180
 gctaccgggtg ctgggtgatga tcgtactctt actggttttg ggattcttaa ggcgaatact 240
 attggtgcga ttcgtgggtt cggttatggt actagtactg gaagttcagg gtggcataag 300
 gatgagaagg atgctatgga tactaatgct aaggaccgta tctccaagaa gatgacgcct 360
 ggtgcttgta ctaagggtgca tgaggatggt gttcntgcgt ctattgctct taagacttat 420
 catgagaaca ctaagacgga ggatctagtt aattttactc ctactgatac gaagcat 477

<210> 22179
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-G9
 <400> 22179

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 atttcaacaa caccgccgca tatcatacta ctacctctct atatccaatt attaaaatga 180
 ctcaacgaat aatccccctcc cacagatatt tccccctcca ttatctactc caaatgtcgc 240
 tcccatttac tcgacaaacg a 261

<210> 22180
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-H1

<400> 22180

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attgtgaaga gtgtgtgtgg ttagtgctgc ttgatgtata gagtattgta ttatatatcg 120
tagtatatat tatagtagta gtattgtatt gtgaacgttg tacgata 167

<210> 22181
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-H12

<400> 22181

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cgttggaggt tttgggatgt ttaatatgac gtactatacg tgatctactg gatatgacta 120
tatattgtac cggtgcgga tgacgactct actggtttgg atctaagcga ataca 175

<210> 22182
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-H3

<400> 22182

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tggaagaaga ggatgatgat ggatggagtg gtgacggtgc gttttgtatc cgtttcttgt 120
ctttcgtctt cttttgattt gtcattattgt tccttggttg tgggtgttatt cgcccgagga 180
gtgctttgtg gcggttggtg cttgtattct tgtcgtcgtc ttggtggtgg ggggtggcag 240
tttgggtagt tgttgaaga agtcgctct gaggttacac ttaagacagt aaggctcaaa 300
ggaagggccg tatctataat aaacacggct acgggcggca tcgcatcga tgacgtaagc 360

gacgaacggt ccgcctcgga ctagaaggca aaccttcatt ttatagacag aggaccata 420
gtaaccggta tc 432

<210> 22183
<211> 211
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-E1-H4

<400> 22183

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tagcgacggg gccggcgctn taataaacgg tcgggcggta gaaataagtc aaaaatagcg 120
aatatacggt accgctacat cgatttccaa acccatatat tactatcaca ctgccagca 180
ttaatcatat gttccccctt cgagaactaa c 211

<210> 22184
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-E1-F6

<400> 22184

tgcttgaaaa aaaaaaaaaa aaaaaacaaa aaaaaccacc cccccncaa aaaaaaaaaa 60
aaacaccgtg ggacccaaaa aacaaagagg gcgacaaaaa aaaaaagggg tggttgcccc 120
aaagaactaa agcccatcaa tttgcgtacg taatccaaaa gtctccccac agcgctattc 180
aaaccaaacc tatcggttgt tgcccaaaaa tgctcgaatc ggaaaaattc cgggtgccatt 240
aaatcaaact gtcccgaaaa aaacttttcc cctgttagcc ggtcaaaaaa taaaaaggtt 300
tgaattaact gttcccttaa ataccggtt aattcgaacg gtaaaccggaa ttttt 355

<210> 22185
<211> 283
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-E1-H5

<400> 22185

tcttactcgt catccttatac attgttattc tgctgagtgc ggcacggcctt tttctaagaa 60

tgaggagtag tctatggatg ggcattcaga tattactgct gatcggactt tgggtgtgtt 120

taaggattcg tggctentagg atccgttgag tcctgcgtgt attatggact tgaatgatgc 180

tacgtctaata cctcctactt atgagatgga gggtagcgtg taggtgctgg tggcggctac 240

taatattcct gatgagtctg atgtgatgac gtctgtcgtt acg 283

<210> 22186

<211> 164

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-E1-H6

<400> 22186

cttatcctcc ctcagagtct gggtcatatc ctctccgctc tcccattata agtggtcgtg 60

gtactactng tcataccttat cattattatt ctcatacgtg ctgcacggct ttttctaaga 120

atgatgagta gtctatggat tggcattcag atattactcc tcat 164

<210> 22187

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E12

<400> 22187

ggttggaacc tttgggctga tttatgtgct tgcctgata ctgagactga tggtaagttc 60

gtaggttgga ctgcgtcggg atcgccgggg gatattgcct tcaaaatcgt agagaatcct 120

tgagtatccc gtatagggga gaaaggaacc gttaagcttg gtaagttctc gcggcataag 180

gggctgatgc cttataggac tactttgggg cctacgactt agggaggtga tcctattaat 240

ggtaatggta tgggggggtga gcttactcat ggtagtatta ctctctctga tgagaatcct 300

aagtatattt atgtcaaagt tggcatgtcg cttacggtca atcatgggtt tgatcttaac 360

ggtctttagc ctctactat tattgcagat gaaaattggc cgtttaagaa gtcggatggg 420

tgttatgcgg cgcctggtaa ggcggcg

447

<210> 22188

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E2

<400> 22188

atgaaatcc atcagttatg aacattcgcg aaaatagtaa aataaaaaac gggattgtc 60

cgttaccaca tacggaaatc ctgcaaccct ccaggaacgc tatgcggtct gactgaggtt 120

aagttacgca tgcataagcc gactaatcac ccacgtacgt cgtcgtagc tctacacatg 180

aaggtattac ttctctgttg cttagtttcg ggcctttctg cgctttcggg acacataggg 240

gtgggtgtct cagaggactt aagt 264

<210> 22189

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E3

<400> 22189

tgcttggtta tgtgcttggt tatgtgcttg tttgcccac tctcctaata ttaacttacg 60

gttcgtgtgg actgtcttat gttgggtggag gatgagtaat agtagaagtg tttgctctct 120

cctctgttgc attagacgtt ttgtccttgt tctatttatt gggcggcgctc ggtgttgacg 180

attaggcgta ggggtgttga tgtgacttta ggttttgtgt ctgtggagca tcatgtgtag 240

tggcctatgg aggggtggcc gtctactctt gagggattta ctactctgtt gcttggtttc 300

gggcctttct gccgtttcgg gacacataac tcagaataga tcgacgtacg gaggaagg 360

gatgacgtcg tctacg 376

<210> 22190

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E5

<400> 22190

gttggaacct ttgggctgat ttatgtgctt gtctgtatta agaagcatga tcgtaagact 60

tcctttaatc tgcggcgac ggatcctgcg agataatggg gaggcgcttg gggctatgtc 120

gtctaattctt aagcctcctt atacgaatac gcattggcgt aaggatacgt cgactaagga 180

tgcgattgcg atggtgtttg gggatagttt taatatggac ggtacttata cgggtgatct 240

acttgggact atgactatta atattgctac cgggtctggc gatgatcgta ctcttactgg 300

ttttgggatt cttaaggcga atactattgg tgcgattcgt ggtttcgggtt atggtactag 360

tactggtagt tcagggtggc ataaggatga gaaggatgct atggatacta atgctaagga 420

ccgtatctcc aagaagatga cgcctggtgc ttgtactaag gtgca 465

<210> 22191

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E6

<400> 22191

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actcgatttt ctttcttaaa ctctgcccga tgtttctctt aaactacgtc agttgaaatg 120

ttttcttcta aactcgagta ctaaactgat ctctactcc ttcgaaatta cttatcttct 180

ttcaaacttc tctagactaa acgttttcct ctaaacacgg agggtcggag gatgagcgaa 240

ctgaaagaag aggttgaggg ggcgaccggg accccctcct ccaccccggt aaacataaac 300

tagtcatccg tcaaatagaca cccgtctcgg acaactcaaa gcaatgatga gtaaacacaa 360

gactggcgga ctctagaaaa aggaacaac cgacgagaag gactccttat aataaataaa 420

aaactaaaag ggcttaactc taaaggaaac gcaaaaaatg acgaac 466

<210> 22192

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E7

<400> 22192

ggcttgaac ctttgggctg atttatgtgc ttggagtatt attattatta ttagcatggg 60
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 acgcattagt agttgcatgg atagttggcg catgtgctgt tgcattggtta gttgttgttg 180
 ttattggtga cgcatttgtt gttgcatgtg tagttgttgt tcttgttatt atggaagatt 240
 ggtgtactgc ctgtggaagg acgtcgcgta gggcccgttg taactcgccg tcgtcgttct 300
 acggatgtgc gtcctcgact gcgcggctga ttataagttt aagaaatgat gtccttctt 360
 cggttcgggc tagggcgttt actagtgagg agtcgagact aattattgtg ccgagtagtc 420
 ggcggcagtt cgggtgttgc cgtactcccg tattgggaat gaagt 465

<210> 22193
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-E8

 <400> 22193

ggcttgaac ctttgggctg atttatgtgc ttggcaagag ctgctcaacc taaccggcct 60
 ccaccatn ttccctccacc cttctcgctg ngcaccccca caattgggtcg gcgactcata 120
 agaatcaatt aaacatccca cctaccacc catcgaccgc catgttcacc caaaccc 177

<210> 22194
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-E9

 <400> 22194

ggcttgaac ctttgggctg atttatgtgc ttggcctcct ctttctaac ttaccgtaag 60
 taataggagg agaaaaaata aggagtgaga gtggcgatc gatgtgtata aggtaaaatt 120
 taactggagt tgcggattgg gttggagaca gggctctagg ttacggtaag tggaggtag 180
 ggtgtaggga gtggtgagct tttatttgtc gttctagcgg aggtggtagt gggggaggtag 240
 atgtcgata cttggcgtgt gaatggtctc aagcctatgg cgtagatgga ttcgggtgtt 300
 atggcgggtg ggcctaagga ggctgcagtt gggagtcgtg atgcgttggt gttgtagtag 360

tgctcgactc ataagggttg tacttctaag gatgagtaaa tttcagaaag tcatgggtgcc 420
gagatagact atataaccta tccggcgtgc 450

<210> 22195
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-F1

<400> 22195

gggaaggggc cgttcccaag gattagggga aaaaaaagg ttcgaaatct aagaccaaag 60
gcggcaacta ctattctaag aagtcgacta acggagtatc tgtaagtata gcgctaagaa 120
tccgcgccgt attccccgag atgactagaa tgtacccgac ggccggggagc aacgggaacc 180
tgctgatcga ggcgccttag ctactacga agtacagggg acggatcggg ccgccttgcg 240
gcaatcccg ccaacgctact tgggcagttt ttagtaaggt aactgagtcc cccgtcc 297

<210> 22196
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-F10

<400> 22196

ggaacttttg gcggatttat gtgcttgtgt agacttttat tcgtcttggt gttggttatt 60
gtgccgtctt ttctggtagt tgaggcggta gaagtattac gctcgttggt cgagaggtct 120
cctaagtagt aataccatcc ttagaatccg attaatgata ttcattcgaa aggggtgtcct 180
gatgcgacta ttcttgctgt tactttttcc gtatctgtcg ttcttagtac gcctacgacc 240
gggtgcggag ccataatac gctctacggg gccgggaaga aagagcgact ccttatcggc 300
caatcacgc cctcgccggg tacggaagct acattgctga gatcgtgaag cttctcctgt 360
ccgtaaaaca acatgggttaa acaataacct gatcataccc ctgtaactaa ccctcgcccg 420
caccgcggg cgcaagcgg tagcaatccg 450

<210> 22197
<211> 444

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-F11

 <400> 22197

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 gttttttata aggttatcta tttgggggggt cttatcttct gattgtattg agtagaggac 120
 tatacggtag ttgttgccct gtcctcttct ctgtttttgt gttcgtctta ttgtgatggg 180
 atactttgtt cttctagtag tttgtactgg tgggcttctt ctgttggttt taataatgtg 240
 attttctgct ggtcttcggg ttttgtgttg tgtgttctta ataataatga taatagtggg 300
 gttgcggagg tgtttgattg ttctgcgggt gtggctgttc attcacattt gccttctgat 360
 ggtgtgtatt atgggtgtcc ntccctctat tagccttttc ctccctgggtg gtcgtcttgt 420
 ttgtcgggtt ttgtgggtctg gtct 444

<210> 22198
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-F12

 <400> 22198

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 caacaaacag cctgcgaact ttcgtagtng gtccacacac accttcgtta agacaaaangc 120
 aacggagctg ctatgtacgc cttagtgtgt tgctacttcg tcctcttcgt ctaccgcgct 180
 tattgacacg gtataggtaa gggaaactga gaagcatagc gagtgacccg ccgggggtacg 240
 tacgactgta gataatcgtg ttaacgcccg ttgtggcgag ggtcctccgg ttggtaggcg 300
 tagtattcct tgttgttgtc gtactcgtat caggtagcgt caaataagac tgtctgactg 360
 tctgctacgt accgataatt cacctccaac aatgcctacc actctgcctc caccacgat 420
 caacgcta 428

<210> 22199
 <211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-F2

 <400> 22199

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 ggaatatctc caaattgaac agtctctgcg ttctcgtaga cacataattg cgccccaaat 120
 ccccttctcc taagtcccc gaatttagag gttaaattat ttcttaaagg cacaacgtaa 180
 ggtccgaagc acgataagaa cccgctagac ctgctatttc ggaggcggtc acgccgaacc 240
 gtatgatttt taaagacggt actaagccta atcgctccga cggtcgtagc tttagtccta 300
 ctccgatctg gactcccttt aacttagaag cggacactgt acagactggt attattccca 360
 gcataggctg ctcgtagaat cacgcacgaa ctctatagc agaaccatt acaactagac 420
 cccggtggcg taatcgggcc aaaac 445

<210> 22200
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-F3

 <400> 22200

 ggggcggtgg agtattcagt cggacgaaag accattatct ggtattgtcc gatctgcttc 60
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 ctacggacgg agtaagtgt ggagaaattc ttcttaggga tatgaaaagt gaggtaggtg 180
 ctgatgctgg tgggggtgat cttttattgc tttttgttat ttgttggtg agatggtatt 240
 gtctctgggg tcttggaat ctacttac 268

<210> 22201
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-F4

 <400> 22201

ggcttggaac ctttgggctg gtttaatttg cttgtttatg tgcttggtta tgtgcttggtg 60
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 ataggcggat tctgttggt gatggtgctg attcgatgta taatgcgatg gcgtttaagc 180
 cgatggcgga gacggttggc ggtgtgaggt cagagttgga agttaagagt gcggcgacgt 240
 tggaagcagc gtttggggcg gtgcgttcgg ttcccaggaa gtcgttggtg ggaggggttcg 300
 ggactccggg taatgcgtct acgtaagagc atactcggga gactgattat ngaaagggga 360
 aga 363

<210> 22202
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-F5
 <400> 22202

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 cgctgagtc cgatcgacct gagcatcgtc ataagcgaat tctgtttat gatcgctccga 120
 attctatgta taatccgata gactttaacc cgatggctga gaccgtaga aatgtcagct 180
 cagaatttga aattaaagt acgtccacat tctaggcagc gttttcctcg attcggtctg 240
 ttcccatgaa gtcgtagatg ggaggggttc tgactccgtg taattcgtct acctaat 297

<210> 22203
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-E11
 <400> 22203

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 gtgtcagtc tgctcccgt accgttgtct cttctcctgc tgttacggct gcagtattga 180
 cggttgaggt aaagcttggt gacgttttcg cggtcgatgt gttagttgac ggattcagtg 240
 ggttggtcgt cgtattcggg ttttagggcg ctgaagggtc gctaggtaac gaggacgatg 300

acgacgatct tattaaccga ggttatatat gctgggttgg ccaaaccggg aataagatac 360
 ggaagaaaaa cgagagtaac gctcccaaaa ttacgacaac gcgcgggtac ttatctactt 420
 acggacatac ttccgtctct ttctccccct ccctcgccgg acccctaacg cgccactac 479

<210> 22204
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-C7

<400> 22204

ggcttggaac ctttgggctg atttatgtgc ttgtctacct cccccccccc cccacacccc 60
 cccccatta ttaccacata caataatcgc ggcgggcccc cacaaaacca agagttaaaa 120
 taaaatacta ctaccacat cactatatca aaaaaaaaaat cagcgttacc caccctttta 180
 cacc 184

<210> 22205
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-C8

<400> 22205

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 ctagtgggta cggttctgac cttggtgatg attcctgttg ctactccact tgcttctcct 180
 cgcgttgtgg tcggtattgt tgctgataat gattcttttg atcatgctac ttaggggttg 240
 gctcatcgtg atattcggtg tggtgggcct gcgattaacg ctattgagca tactgtgggt 300
 gttaaggcga ggtcggagcg taagtatcct ggtattggta agtctgagtg tcttactgat 360
 ggggcgattg atgtgaatgg tatgcatatg actgagtct 399

<210> 22206
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-C9
 <400> 22206
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 acgaagtcac ctccaagtta cccgagaagg gggaccacc agatagtctt accgttagat 120
 cattcgatac agagattata atatccggag ttatacacgc cgtcagtcca gacgtaggag 180
 cccggattaa ggaataagca cccgtaggcc agtataagga gaatgtgata actccctggt 240
 taaaatcaga cgaggcgat aagaagaggg tcgacctacg gcataagatg gccctaagac 300
 tacctgacct ggtcgattcc ctctcgcaa cgccctccgc tggtagcgac tctctgccc 360
 ccggaagacg taaacgaaca aaccggctcc cgtaggcttc na 402

<210> 22207
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-D1
 <400> 22207
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 ctgtcggcga cggatcctgc ggatgagggg aggcgcttgg ggctatgtcc tctaatttta 120
 agcctcctta tacgaatacg cattggcgta aggatacgtc gactaaagat gcgattgcga 180
 tgggtgttgg ggatagtttt aatatggacg gtacttatac gggtagtcta cttgggacta 240
 tgactattaa tattgctacc ggtgctggcg atgatcgta tcttactggt ttggggattc 300
 ttaaggcgaa tactattggt gcgattcgtg gtttcgggta tggtagtagt actggtagtt 360
 cagggtggca taaggatgag aaggatgcta tggatactaa tgcta 405

<210> 22208
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-D10
 <400> 22208

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 acgacgagat tcggaacttc gcgattgcga cggatgatgtg agatggtcag gtgaggtgtt 180
 tcttaactta agaatgggaa atttgcgctg ttcgccggca tgtgggtaga agactgggcc 240
 tgttaccctt aagtccggcg ttctgttgtt cgggctctct gctctgggtc ttgaagtgtt 300
 ttgtgtcggc tcaccagggc aaccggcct agctcacctg gacncacgaa accctggggc 360
 tcgaaaaacg agaattgaaa cccttaaaaa caccacag 398

<210> 22209
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-D11
 <400> 22209

ggctttggac ctttgggctg atttatgtgc ttgtttatgt gcttgtacat cttctggctc 60
 caattcaata aaataaattt ctacatactc gtgggccaca caccactaac tggtcaaac 120
 acccagtcac ctatcctttt attcatcgca taacataaca ccataatcaa cataaaacga 180
 ataacgctcg ttccattctc caatcatgac atagcctaaa tctttcatct atacaatttc 240
 acttctcgac cacctctcac atatcaccca tactaactac ttacactata gcacgtacat 300
 acactctatt atctcactcc atcactcctg tacacctatg ctaattcacc acaatatatc 360
 caccactac tcaaacgcca ctacataaac ctaactacaa attccctaca actac 415

<210> 22210
 <211> 478
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-D12
 <400> 22210

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 aacaaacagc ctgcgaactt tcgaggtggg tacacacaca ccttcgttaa gacaaaggca 120
 acggagctgc tatgtaggcc ttagttgggt gctacttcgt cctcttcgtc taccgcgctt 180

attgacacgg tataggttaag ggaacgtgag aagcatagcg agtgacccgc cgggggtacgt 240
 acgactgtag ataatcgtgt taacgcgcgt tgtggcgagg gtcctccggt tggtaggcgt 300
 agtattcctt gttgttgctg tactcgtatc aggtagcgtc aaataagact gtctgactgt 360
 ctgttacgta ctgataattc acctccaaca atgcctacca ctctgcctcc acccaccgatg 420
 aacgctacgc acgcctcggc gatcgctacg cacacctcga cgatcgctac gcaactccg 478

<210> 22211
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-D2

<400> 22211

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 ttgttcttgt ttcttagctc tcccgggtata attcgtagtt gtcggtgtag gcggatacgg 120
 actcgtaag ttctgttgct gcgtcgtgtg ttgtgtctag ctatgccttc gaagagtgtg 180
 aagtcgtaga ggagagctct aattagcctt agcctatatt atagtacccg gcgagaccgc 240
 catagactac cgctgacgga agccgcgaca cggtcgcaag ataggccgta agtacctacc 300
 ctaagaaccc caccgtgaan aatccgctat ctaacgactt aaacgagct 349

<210> 22212
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-D3

<400> 22212

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<212> DNA
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<223> Clone ID: LIB3066-033-Q1-E1-D4

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<223> Clone ID: LIB3066-033-Q1-E1-D5

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